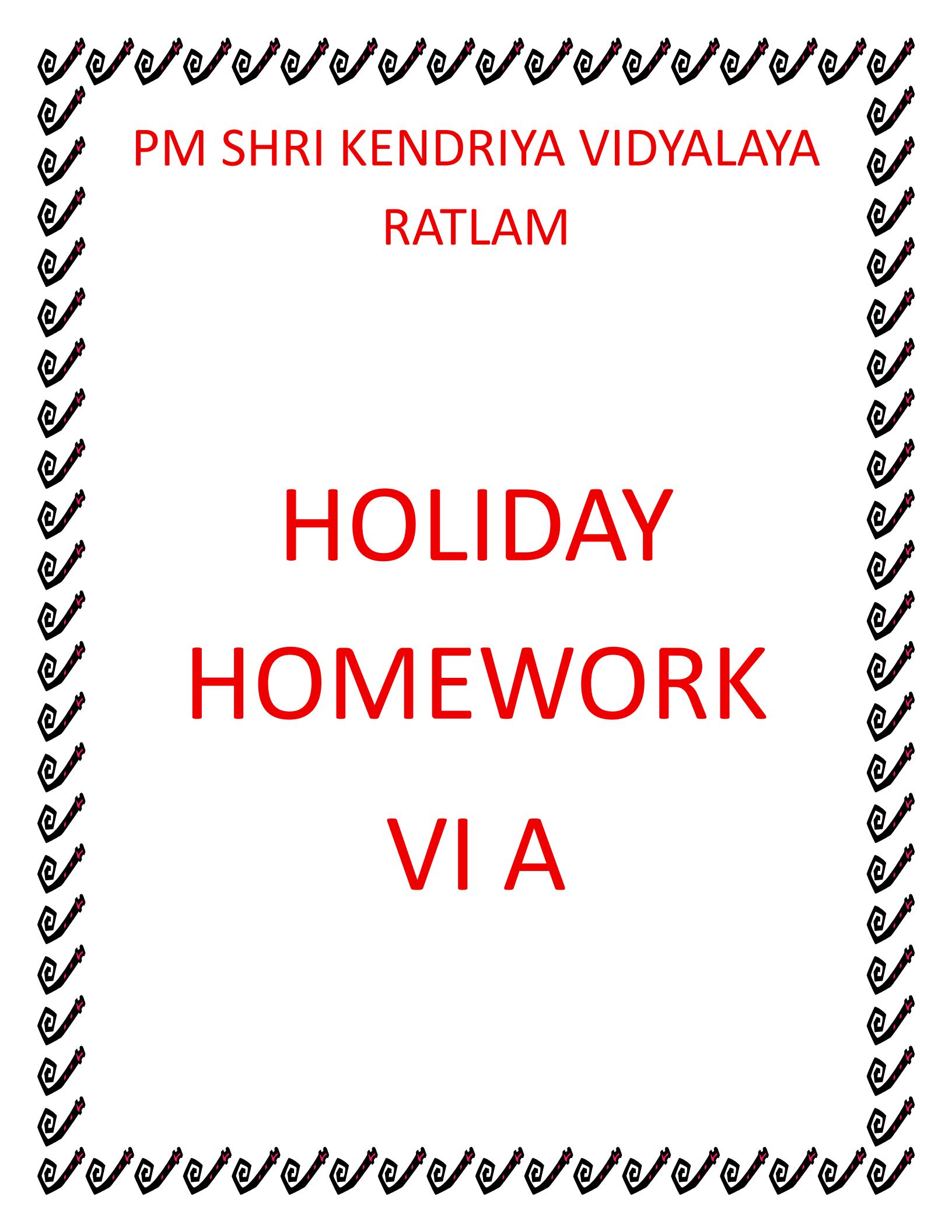




PM SHRI KENDRIYA VIDYALAYA  
RATLAM

HOLIDAY  
HOMEWORK  
VI A

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 6 हिंदी

1. आपकी प्रिय पांच कहानियाँ लिखिए ?
2. पाठ्य पुस्तक के कवियों-लेखकों का जीवन परिचय लिखिए ?
3. रत्नलाम नगर की विशिष्टता का वर्णन एक पृष्ठ में लिखिए ?
4. हमारा केन्द्रीय विद्यालय “ विषय पर दश वाक्य लिखिए ?

**1-Read the passages given below and answer the questions that follow:-**

We must do all we can to stop conflicts and civil war. Most conflicts happen in poor countries, especially which are badly governed or where power and wealth are not distributed fairly between different tribal or religious groups. So the best way to check fighting is to make a political arrangement in which all groups have their representatives. The need is to ensure human rights and economic development of all.

The next fundamental freedom is one that is not mentioned in the UN charter. In 1945, the leaders could not imagine that such a situation would arise. That is the freedom of future generations to live on this planet.

Even now many of us have not understood its importance. We are using up the limited resources for our present use. We are over using and even wasting them. We are, in fact, robbing our children of their right to live.

We must preserve our forests, fisheries and wildlife. All of these are collapsing because of our own habit of consuming or destroying them.

**(A) Answer the following questions briefly:**

- (1) Why do most conflicts happen in poor countries?
- (2) What is the best way to check conflicts?
- (3) What is meant by 'the freedom of future generations to live'?
- (4) How are we robbing our children of their basic right?
- (5) What must we preserve for our children?

**(B) Find words from the passage that mean the same as**

- (6) fighting -
- (7) keep safely-
- (8) coming to end-

**2-Read the passages given below and answer the questions that follow :-**

Once upon a time, during the warm summer, a grasshopper was happily hopping around, singing and enjoying the sunshine. He saw an ant working hard, collecting grains of food and carrying them back to her nest. "Why are you working so hard, little ant?" asked the grasshopper. "Come and enjoy the summer with me!" The ant replied, "I'm storing food for the winter. You should do the same, or you'll have nothing to eat when the cold weather comes." The grasshopper laughed and said, "Why worry about winter now? There's plenty of food in the summer!" As time passed, the weather changed, and winter arrived. The grasshopper was cold and hungry, with no food to eat. He went to the ant's house and begged for some food. The ant said, "You laughed at me when I was working hard during the summer. Now you see the value of preparation." The grasshopper, full of regret, realized his mistake. He learned that it's important to prepare for the future.

1. What was the grasshopper doing during the summer?

(a) Storing food (b) Playing and singing (c) Building a nest (d) Looking for water

2. Why was the ant working hard in the summer?

(a) She wanted to stay busy (b) She was preparing for the winter  
(c) She was competing with the grasshopper (d) She was building a new home

3. What did the grasshopper think about the ant's hard work?

(a) He admired the ant (b) He wanted to help the ant  
(c) He thought it was unnecessary (d) He was inspired by the ant

4. What happened to the grasshopper when winter arrived?

(a) He had plenty of food (b) He had no food to eat  
(c) He found food easily (d) He migrated to a warmer place

5. What did the grasshopper do when he was hungry in the winter?

(a) He asked the ant for food (b) He went looking for food  
(c) He tried to build a shelter (d) He waited for summer

6. What lesson did the grasshopper learn in the end?

(a) It's okay to be lazy (b) Preparing for the future is important (c)  
Summer is the best time

7. Find the word from the passage which has similar of 'be sorry about' or repent

8. Give the suitable title to the passage.

## SECTION –B

### WRITING SKILLS AND GRAMMAR

1. You are the Head of the Literature Club in your school. Write a notice informing the students that a book fair is being organised on the occasion of the World Book Day under 50 words.

2. Write an application to the Principal of your school for fee-concession.

3.;Write a paragraph on any one of the following topics-

A- MY SCHOOL

B- 1. Write an application to the Principal of your school for issuing transfer certificate

4. What is the 'Homophones'?

5. Fill in the blanks with suitable adverbs from the box given below. There are two extra words that you do not need.

|           |          |          |         |
|-----------|----------|----------|---------|
| Beautiful | Smoothly | Graceful | Quickly |
|-----------|----------|----------|---------|

A. He solved the mathematics problem \_\_\_\_\_.

B. The car moved \_\_\_\_\_ along the highway.

6. The poet says, 'With special friends I feel I'm **blessed**'.

Select the words that are similar to the meaning of being **blessed**, from those given below.

|         |          |            |          |         |
|---------|----------|------------|----------|---------|
| Excited | Grateful | Understood | Thankful | Relaxed |
|---------|----------|------------|----------|---------|

7. Complete the sentences with correct preposition:-

A. Dewali is ..... 10 November. ( on/ in / under)

B. Tom is hiding \_\_\_\_\_ the box. ( on/ at / behind)

8. Select the word which should be edited from the following sentences to make them grammatically correct.

A. She did not want to do work today.

(a) Did not                      (b) Want                      (c) Do                      (d) Today

B. I have wrote this song yesterday.

(a) This                      (b) Have                      (c) Yesterday                      (d) None of the  
above

9. Arrange the following words in the order that they make complete sense:-

A. are my toys these.

B. milk cow us gives.

10. Read the given sentences below and circle the adjectives.

A. The fox is a sly animal.

B. The homeless beggar hasn't eaten in days.

11. Find out the homophones used in the following sentence.

The woman told her son not to play in the sun.

12. Fill in the blanks with suitable adverbs given below. There are two extra words that you do not need. 1mark

Beautiful              Smoothly              Graceful              Quickly

A) He solved the mathematics problem \_\_\_\_\_.

B) The car moved \_\_\_\_\_ along the highway.

13. Expand the following words.

Can't \_\_\_\_\_              I'm \_\_\_\_\_

14. Fill in the blanks to complete the following sentences.

I \_\_\_\_\_ in Grade 6. [am+study+ing]

The teachers \_\_\_\_\_ in the staff room. [are+sit+ing]

15. Choose the correct option from the following sentences to make them grammatically correct.

A. She does not ..... to play today.

a) wants                      (b) Want                      (c) wanted                      (d) is wanting

B . I ..... this song yesterday.

a) sing                      (b) sung                      (c) sang                      (d) singing

16. Arrange the following words in the order that they make complete sense:-

A. are my toys these.

B. milk cow us gives.

17. Read the given sentences below and circle the adjectives.

A. The fox is a cunning animal.

B. The tall girl won the race.

## SECTION – C

### LITERATURE

1. Read the following extracts and answer the questions that follow choosing the best option from among the given ones.

I want to do much more than share

The hopes and plans of friends who care;

I'll try all that a friend can do

To make their wishes come true.

- A. What is the central theme of the poem?

(a) Love and romance                      (c) Friendship and commitment

(b) Nature and beauty                      (d) Adventure and exploration

- B. What does the speaker feel blessed with in the poem

(a) Wealth (b) Success (c) Special friends (d) Knowledge

- C. These lines tell us that the speaker is \_\_\_\_\_

(a) Clever (b) Caring (c) Curious (d) Calm

D. How will the speaker make her friends 'wishes come true?

(a) By working hard (b) By working a lot (c) By caring (d) None of the above

E. What is the name of this poem?

2. Read the following extracts and answer the questions that follow:-

Mario, brave and determined, took the strange invisible chair and set off for school. At break time, he asked everyone to form a circle. He put himself in the middle, with his chair. "Nobody move. You're about to see something amazing."

A. What two qualities describe Mario in the passage?

B. What did Mario bring to school that was invisible?

C. Where did Mario place himself during break time?

D. Fill in the blanks with two words that describe the chair.

The chair is \_\_\_\_\_ and \_\_\_\_\_ .

E. What is the opposite word of 'Amazing'?

3. Answer the following questions.

(1) Mr Raven is a\_\_\_\_\_.(bird/frog)

(2) The words that describe the quality of a person or a thing are called \_\_\_\_\_.

(3) Write whether the following statements are True or False.

(A) Madhumati was troubled about what her husband did . [                      ]

(B) Rama Natha was very happy digging his fields.                      [                      ]

(4) Expand the following words.

What's \_\_\_\_\_ must've \_\_\_\_\_

(5) Fill in the blanks to complete the following sentences.

(a) I \_\_\_\_\_ in Grade 6. [am+study+ing]

(b) The teachers \_\_\_\_\_ in the staff room. [are+sit+ing]

(6) Choose the correct option.

The Wife says 'Ssssh! Listen!'. What does the word 'Ssssh' mean here ?

(a) Sleep (b) help (c) rest (d) be silent

7. Answer the following questions in 20-30 words.

- A. How could Rama Natha have a big banana plantation after six years?
- B. Why does Reynard say that pride is not wise?
- C. Give one reason why the man and his wife were not able to fall asleep.
- D. Why did Gajaraj not eat his food?
- E. Why does the speaker 'want to do more' for her friend?

8. Answer the question in 50 words.

- A. What is the use of trees in our life? Draw a picture of any tree and colour it.
- B. Note: It's a learning cum writing task to ensure conceptual learning, creativity, and originality.
- C. Answer any three of the following questions in 20-30 words.
- D. What did the sage ask Rama Natha to make the magic potion?
- E. Give one reason why the man and his wife were not able to fall asleep.
- F. Why did Gajaraj not eat his food?
- G. Why does the speaker 'want to do more' for her friend?
- H. Why does the Fox address the Raven as "Sir"?

9. Answer any one question in 50 words.

- A) Why does Reynard say that pride is not wise?
- B) Write the summary of the poem 'A Friend's Prayer'.

**Note: It's a learning cum writing task to ensure conceptual learning, creativity, and originality.**

### HOLIDAY HOME WORK

| CLASS | HOME WORK                                                                                                                                                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VI    | SOLVE SAMPLE PAPER FOR TERM -1 EXAMINATION<br>PREPARE EXHIBIT FOR BAL VAIGYANIK PRADARSHINI                                                                                                                                                                                                     |
| XI    | EXP: MEASURE DIAMETER, LENGH AND VOLUME OF A METAL CYLINDER BY VERNIER CALLIPERS.<br>SOLVE SAMPLE PAPER OF HALF YEARLY EXAMINATION SHARED ON WHATSAPP GROUP.<br>WRITE NOTES OF CHAPTER – SYSTEM OF PARTICLES AND ROTATIONAL MOTION                                                              |
| XII   | EXPERIMENT: DETERMINE FOCAL LENGTH OF CONCAVE MIRROR BY PLOTTING A GRAPH BETWEEN U & V<br>EXPERIMENT : DETERMINE REFRACTIVE INDEX OF LIQUID BY (I) CONVEX LENS (II) CONCAVE MIRROR<br>SOLVE QUESTIONS FOR PREBOARD EXAMINATION.<br>WRITE ACTIVITIES: WRITE THE ACTIVITES FOR BOARD EXAMINATION. |

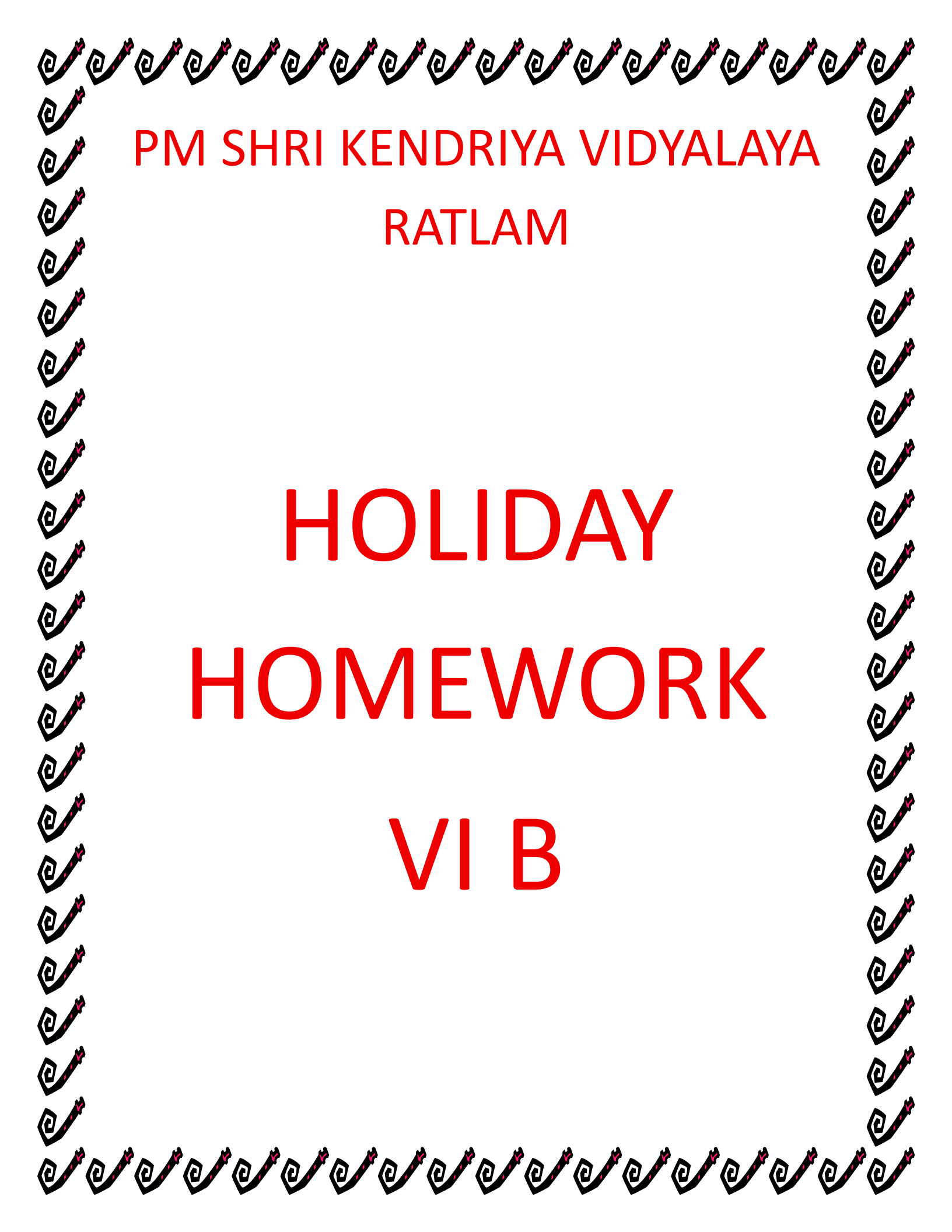
M K CHATURVEDI

PGT PHYSICS

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 6 संस्कृत

1. अतिथीनां स्वागतं कथं करणीयं ? दश वाक्यानि लिखत ? अतिथियो का स्वागत सत्कार किस प्रकार करना चाहिए?
2. पञ्च महापुरुषानां जीवने विषये पञ्च -पञ्च वाक्यानि लिखत ? / पांच महापुरुषों के जीवन से संबन्धित 5-5 वाक्य लिखिए ?
3. अतिथि देवो भव पाठ के अव्यय पद, कर्ता पद व क्रिया पद चुनकर लिखिए ?
4. दश पुष्पो, फलो व रंगो के नाम संस्कृत में लिखिए ?



PM SHRI KENDRIYA VIDYALAYA  
RATLAM

HOLIDAY  
HOMEWORK  
VI B

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 6 हिंदी

1. आपकी प्रिय पांच कहानिया लिखिए ?
2. पाठ्य पुस्तक के कवियो-लेखको का जीवन परिचय लिखिए ?
3. रतलाम नगर की विशिष्टता का वर्णन एक पृष्ठ मे लिखिए ?
4. हमारा केन्द्रीय विद्यालय “ विषय पर दश वाक्य लिखिए ?

# **PM SHRI Kendriya Vidyalaya Ratlam**

## **Class VI - Social Science Homework**

### ***1. Locating Places on Earth (Geography)***

- Draw and label the world map showing continents and oceans.
- Mark the Equator, Tropic of Cancer, Tropic of Capricorn, and Prime Meridian.

### ***2. Timeline and Sources of History (History)***

- Prepare a simple timeline of your life events (at least 5 events).
- Collect pictures of old coins, monuments, or manuscripts and paste them in your notebook.

### ***3. Family and Community (Civics)***

- Write about your family members and their role in the family.
- Interview an elder in your community and write 5 lines about community help.

### ***4. Oceans and Continents (Geography)***

- Draw the outline map of the world and label all the continents.
- Write 5 interesting facts about the Pacific Ocean.

### ***5. India – That is Bharat (History)***

- Draw the political map of India and mark all the neighbouring countries.
- Write a short note on why India is called 'Bharat'.

### ***6. The Value of Work (Economics)***

- Write about any household work you do regularly.
- Discuss why all types of work are important for society.

### ***7. Grassroot Democracy Part I: Governance (Civics)***

- Write about the work of a Sarpanch in your village or ward.
- Prepare a short note on Gram Sabha and its importance.

## MATHS WORKSHEET CLASS6 ( MID TERM)

### MULTIPLE CHOICE QUESTIONS

- 1) The smallest counting number is  
a) 0      b) 1      c) 10      d) none of these
- 2) Which number is neither prime nor composite  
a) 1      b) 2      c) 11      d) 5
- 3) Which one is a prime number  
a) 81      b) 87      c) 91      d) 97
- 4) Which of the following is prime  
a) 117      b) 171      c) 179      d) none of these
- 5) Which of the following is composite  
a) 23      b) 29      c) 32      d) none of these
- 6) Which of the following are coprime  
a) 39, 91      b) 161, 192      c) 385, 462      d) none of these
- 7) Which of these are coprime  
a) 8, 12      b) 9, 10      c) 6, 8      d) 15, 18
- 8) If a number is divisible both by 2 & 3 it is divisible by  
a) 4      b) 6      c) 8      d) 10
- 9) The smallest composite number is  
a) 4      b) 2      c) 0      d) 6
- 10) which one is coprime  
a) 18, 35      b) 7, 28      c) 105, 100      d) 20, 32
- 11) The only even prime number is  
a) 2      b) 6      c) 7      d) 8

12) The LCM of two coprime numbers  $x$  &  $y$  is

- a)  $xy$     b)  $x + y$     c)  $x/y$     d)  $x - y$

13) HCF of two coprime numbers is

- a) The smaller number    b) The larger number    c) 1    d) none of these

14) Every counting number has infinite number of

- a) factors    b) multiples    c) prime factors    d) none of these

15) The least number that should replace  $*$  so that  $67301*2$  is exactly divisible by 9

- a) 5    b) 6    c) 7    d) 8

16) Which number is divisible by 11

- a) 90728    b) 76844    c) 24571    d) none of these

17) The number of lines that can be drawn from one point

- a) 1    b) 2    c) infinite    d) zero

18) An angle whose measure is equal to one revolution is

- a) straight angle    b) complete angle    c) rightangle    d) obtuseangle

19) The minimum number of sides in a polygon is

- a) 2    b) 4    c) 5    d) 3

20) If two lines have no common point they are called

- a) parallel lines    b) perpendicular lines    c) intersecting lines    d) none of these

21) Point of concurrence is the point where

- a) two lines intersect  
b) two lines are perpendicular  
c) three or more lines meet  
d) none of these

22) Which statement is false

a) Ray has one end point

b) A line segment has two end points

c)  $\overleftrightarrow{AB}$  represents a line

d) Cross road is an example of parallel lines

23) How many lines can be drawn between two points

a) 2    b) infinite    c) only one    d) four

24) The figure formed by two rays with same initial point is called

a) a ray    b) a line    c) an angle    d) none of these

25) An angle measuring  $91^\circ$  is a

a) an acute angle    b) an obtuse angle    c) a reflex angle    d) acute angle

26) An angle measuring  $200^\circ$  is

a) an acute angle    b) an obtuse angle    c) a reflex angle    d) acute angle

27) A reflex angle measures

a) more than  $180^\circ$  less than  $270^\circ$     b) more than  $180^\circ$  less than  $360^\circ$     c) more than  $90^\circ$  less than  $180^\circ$     d) none of these

28)  $\frac{3}{2}$  right angles =

a)  $115^\circ$     b)  $135^\circ$     c)  $270^\circ$     d)  $360^\circ$

29) If there are 36 spokes in a bicycle wheel, the angle between a pair of adjacent spokes is

a)  $15^\circ$     b)  $12^\circ$     c)  $10^\circ$     d)  $18^\circ$

30) The number of sides in a nanogon is

a) 10    b) 9    c) 7    d) 5

31) The tally mark  represents the number

a) 6    b) 4    c) 5    d) 7

32) Which number comes next in the sequence of hexagonal numbers 1, 7, 19

a) 28    b) 37    c) 44    d) 52

33) 1 , 3 , 9 , 27 , 81 , 243 are called

a) cubic numbers    b) square numbers    c) hexagonal numbers    d) perfect numbers

34) Which number is a triangular number as well as square number

a) 81    b) 16    c) 36    d) 100

35) which number is a palindromic number

a) 363    b) 123    c) 269    d) 325

36) The smallest number whose digit sum is 15:

(a) 69    b) 96    c) 78    d) 87

Q37) What is the defining characteristic of a palindrome

- a) It is divisible by 10
- b) It is a prime number
- c) It has no repetition of digits
- d) It reads the same forward & backward

Q38) Find the rule of the pattern 5 , 10 , 20 , 40 , 80

- a) Multiply by 5
- b) Add 10
- c) Add 5
- d) Multiply by 2

Q39) ASSERTION : The sequence 2, 4, 6, 8, 10, ..... follows a pattern of even numbers

REASON : Even numbers are divisible by 2

- a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false.
- (d) A is false but R is true

Q40) Which of the following is the kaprekar constant

- a) 6174      b)7416      c)1746      d)4167

Q41) If a number is even what do you do in collatz sequence

- a)divide the number by 2  
b) divide number by 3  
c)multiply by 2  
d)multiply by 3 and 1

Q42)The diagram in which data is represented by pictures is

- a) Bargraph   b)piechart   c) pictograph   d) frequency table

Q43) If one X is equal to 4 persons then XXXX represents

- a) 11      b)12      c)16   d)20

Q44) The given figure is an example of

- a) line      b) line segment      c) ray      d)point



Beam of light from a lighthouse

Q45) The angle in given figure is

- a) acute angle      b)obtuseangle   c)right angle   d)straight angle

Q46) The number of acute angles in the figure are

- a) 12      b)10      c)16      d)8



Q47 ) Write down all factors of - 20 , 36 , 60 , 75 , 88 , 216 , 300, 102 , 343

Q48)Write first five multiples of – 17 , 23 , 9 , 32

Q49) Write down all prime numbers a) 10& 40   b) 80 &100   c) 40 & 80   d)30 &40

Q50) Write 4 pairs of twin primes

Q51) What are perfect numbers ? Give examples

Q52) Explain which of the following pairs of numbers are coprime

a)18 & 35 b) 15 & 37 c) 30 & 415 d)17 & 68 e)216 & 215 f) 81& 16

Q53) Prime factorise the following numbers

18 , 48 , 56 , 90 , 136 , 252 , 420 , 637 , 945 , 1224 , 1035 , 8712 , 13915

Q54) Find LCM & HCF of a) 42 , 63 b)60 ,75 c)12,18 ,20 d)36 ,60, 72 e)36 , 40 , 126 f) 144 , 180 ,384 g) 117,221

55) Find common factors of : a) 20 ,28 b)15 & 25 c)35&50 d)56&120 e)4 ,8 &12 f)5 ,15 &25 f)75 ,60 &210

56)Find first three common multiples of a)6 & 8 b)12 & 18 c)3,4& 9

Q57 ) Test divisibility by 11 : 4334 , 83721 , 66311 137269 901351

Q58) Test divisibility by 7 : 826 , 6021 , 14126 , 25368

Q59) Test divisibility by 9 : 2358 , 647514 , 98712, 257106

Q60) Express as the sum of two odd primes : 36 ,42 , 84 , 98

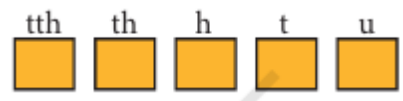
Q61) Express as the sum of three odd primes : 31 , 35 , 63 , 49

Q62) Express as the sum of twin primes : 36 , 84 , 120 ,144

Q63)What is kaprekar constant , take any 4 digit number & write the steps of reaching kaprekar constant

Q64) Solve the puzzle

i)Iam a 5 digit palindrome ii) Iam an odd number iii) My thousand digit is double of my unit digit iv) My hundred digit is double of my thousand digit v) Who Iam ?



Q65) Draw a rough sketch of a regular hexagon join any three of its vertices . Which shape is formed

Q66) Draw a rough sketch of an octagon . Join any of its four vertices , name the shape so formed

Q67) Identify which 3D shape ( cuboid , cylinder , sphere , cone , cube ) is similar to which material from the following - Instrument box , brick , a match box , a road roller , icecream cone , a sweet laddu , dice

Q68) Match the columns

Measures of triangle

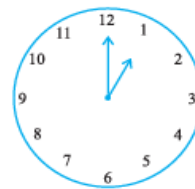
type of triangle

i)3 sides of equal length

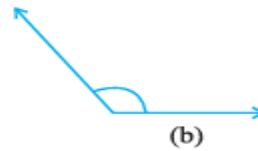
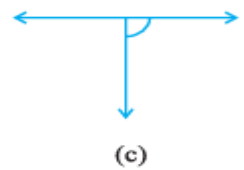
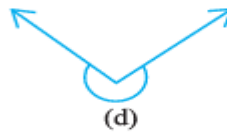
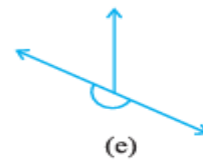
scalene

- |                                        |                    |
|----------------------------------------|--------------------|
| ii) 2 sides of equal length            | Isosceles triangle |
| iii) All sides are of different length | Obtuse angle       |
| iv) 3 acute angles                     | Right angled       |
| v) 1 right angle                       | Equilateral        |
| vi) 1 obtuse angle                     | Acute angled       |
| vii) 1 right angle with 2 sides equal  | Isosceles          |

Q69) Find the angle between hands of clock in each figure



Q70) Classify the following angles as acute angle, right angle, obtuse angle, straight angle, reflex angles



Q71) Where will the hand of clock stop if it a) starts at 12 makes half revolution clockwise b) starts at 2 & makes half revolution clockwise c) starts at 5 makes one fourth of a revolution clockwise d) starts at 5 makes  $\frac{3}{4}$  th of a revolution clockwise

Q72) Which direction you will face if you start facing

- east & make half revolution in clockwise direction
- east &  $1\frac{1}{2}$  of a revolution clockwise
- west & make  $\frac{3}{4}$  th of a revolution in anticlockwise direction
- south & make full revolution

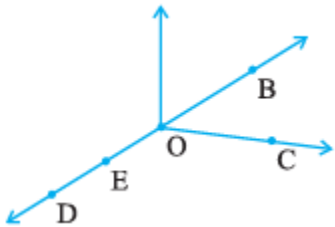
Q73) Find the number of right angles turned through by hour hand of a clock when it goes from a) 3 to 6 b) 2 to 8 c) 5 to 11 d) 12 to 9 e) 10 to 1

Q74) Draw a circle & mark a) its centre b) a radius c) a diameter d) a point in the interior e) a point in the exterior f) an arc g) a sector h) a segment

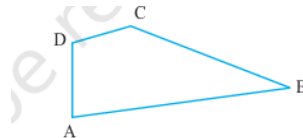
Q75) Draw a quadrilateral KLMN state

a) 2 pairs of opposite sides b) 2 pairs of opposite angles c) 2 pairs of adjacent angles d) 2 pairs of adjacent angles

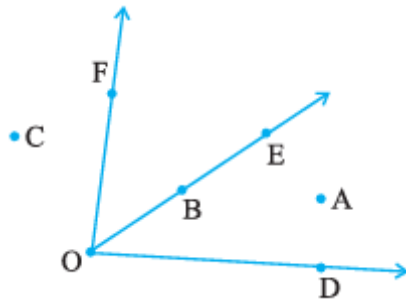
Q76) Use the figures to name : a) 5 points b) a line c) 3 rays d) 2 line segments



Q77) Name the angles in the given fig



Q78) In the given diagram name the points a) in the interior of  $\angle DOE$  b) in the exterior of  $\angle EOF$  c) on  $\angle EOF$

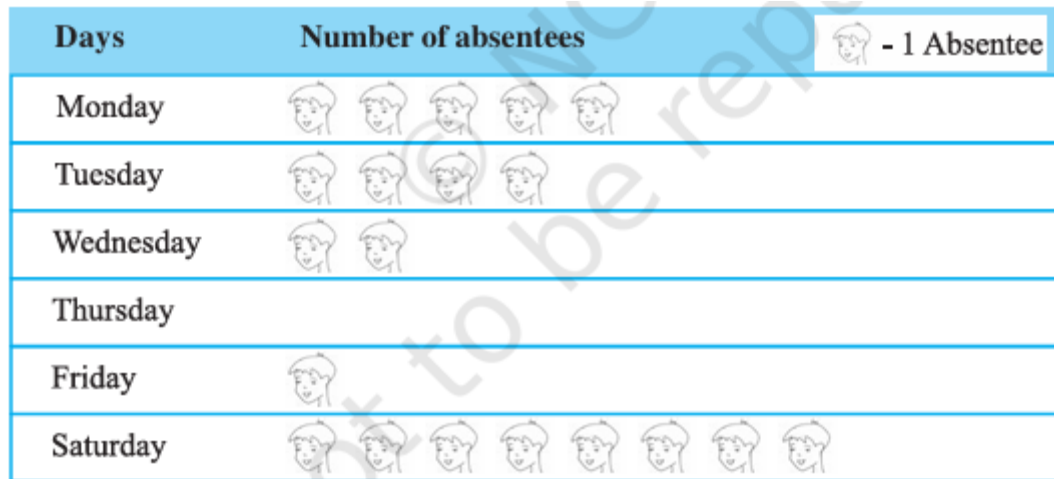


Q79) Draw a rough diagram of two angles such that a) one point in common b) 2 points in common c) 3 points in common d) 4 points in common

Q80) The following are the number of electric bulbs purchased for a year during first four months of a year. Draw a pictograph

| month    | Number of bulbs |
|----------|-----------------|
| january  | 20              |
| february | 28              |
| march    | 32              |
| april    | 40              |

Q81) Following pictograph shows number of absentees in a class of 30 students during the previous week

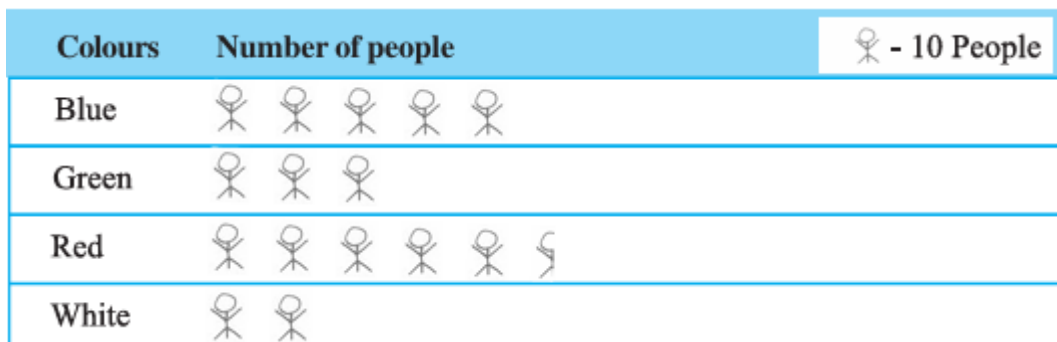


i) on which day maximum number of students were absent

ii) Which day has full attendance

iii) what was the total number of absentees in that week

Q82) The colour of fridges preferred by people living in a locality are shown by pictograph



a) Find the number of people preferring blue colour

b) How many people liked red colour

Q 83) What is the pattern of numbers 1,3,5,7,9 ..... called write the next 3 members

Q 84) What is the pattern of numbers 2,4,6,8,10 ..... called write the next 3 members

Q85) What is the pattern of numbers 1, 4, 9, 16, 25 ..... called write the next 3 members

Q86) What is the pattern of numbers 1,8,27,64 ..... called write the next 3 members

Q87) What is the pattern of numbers 1,3,6,10,15 ..... called write the next 3 members

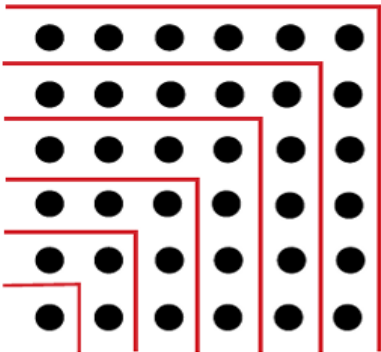
Q 88) What is the pattern of numbers 1,2,3,5,8 ..... called write the next 3 members

Q89) What is the pattern of numbers 1,2,4,8,16 ..... called write the next 4 members

Q 90) What is the pattern of numbers 1,3,9 ,27, 81 ..... called write the next 4 members

Q91) Write pictorial representation first 4 of triangular , square, odd ,even & hexagonal numbers

Q 92)Write the sequence of number of dots in the following



Q93) What is polygon ? Draw polygon upto 10 sides

Q 94)Mark the super cells in table below

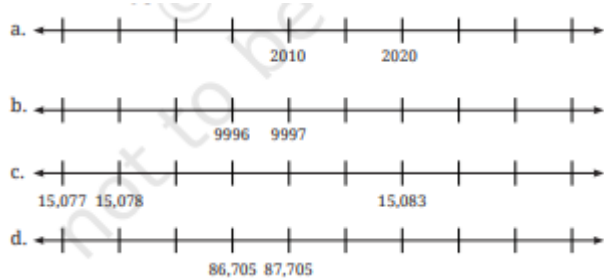
|      |     |      |      |      |      |      |      |    |
|------|-----|------|------|------|------|------|------|----|
| 6828 | 670 | 9435 | 3780 | 3708 | 7308 | 8000 | 5583 | 52 |
|------|-----|------|------|------|------|------|------|----|

Q95)Fill the blanks with four digit numbers such that coloured cells are

Super cells

|      |  |      |  |  |  |      |  |
|------|--|------|--|--|--|------|--|
| 5346 |  | 1258 |  |  |  | 9635 |  |
|------|--|------|--|--|--|------|--|

Q96) Identify and mark the remaining positions on the number line



Q97) Find the difference between largest & smallest 4 digit numbers using digits 3 ,8 ,2 ,4

Q 98)Write collatz sequence starting from 13

Q 99)Start with number 3524 & apply kaprekar process for 2 steps

Q 100)Complete the table

Complete the table

| Sweets      | Tally Marks | No. of Students |
|-------------|-------------|-----------------|
| Jalebi      |             | 6               |
| Gulab jamun |             | 9               |
| Gujjya      |             | _____           |
| Barfi       |             | _____           |
| Rasgulla    |             | _____           |

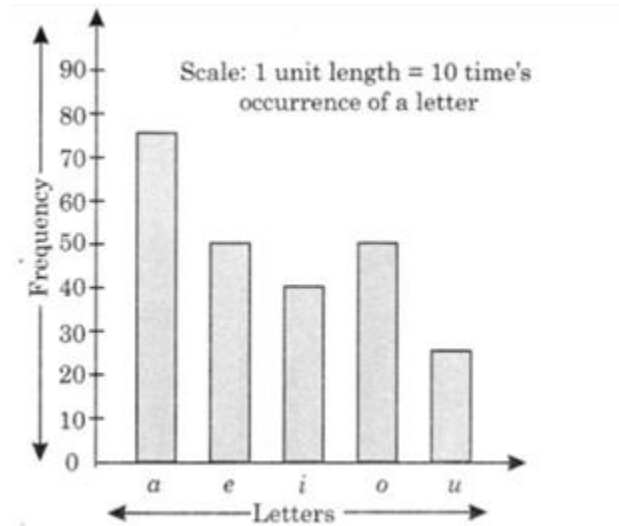
Q 101)The bar graph represents frequency of a, e, l ,o , u in a piece of English writing .

Answer the questions below

- a) Which letter maximum times
- b) Which letter occurred 40 times
- c) Which letter occurred less than 30 times

Q Using protractor draw angle of following degree measures

78. , 89, 123 , 35 , 172 , 90



**1-Read the passages given below and answer the questions that follow:-**

We must do all we can to stop conflicts and civil war. Most conflicts happen in poor countries, especially which are badly governed or where power and wealth are not distributed fairly between different tribal or religious groups. So the best way to check fighting is to make a political arrangement in which all groups have their representatives. The need is to ensure human rights and economic development of all.

The next fundamental freedom is one that is not mentioned in the UN charter. In 1945, the leaders could not imagine that such a situation would arise. That is the freedom of future generations to live on this planet.

Even now many of us have not understood its importance. We are using up the limited resources for our present use. We are over using and even wasting them. We are, in fact, robbing our children of their right to live.

We must preserve our forests, fisheries and wildlife. All of these are collapsing because of our own habit of consuming or destroying them.

**(A) Answer the following questions briefly:**

- (1) Why do most conflicts happen in poor countries?
- (2) What is the best way to check conflicts?
- (3) What is meant by 'the freedom of future generations to live'?
- (4) How are we robbing our children of their basic right?
- (5) What must we preserve for our children?

**(B) Find words from the passage that mean the same as**

- (6) fighting -
- (7) keep safely-
- (8) coming to end-

**2-Read the passages given below and answer the questions that follow :-**

Once upon a time, during the warm summer, a grasshopper was happily hopping around, singing and enjoying the sunshine. He saw an ant working hard, collecting grains of food and carrying them back to her nest. "Why are you working so hard, little ant?" asked the grasshopper. "Come and enjoy the summer with me!" The ant replied, "I'm storing food for the winter. You should do the same, or you'll have nothing to eat when the cold weather comes." The grasshopper laughed and said, "Why worry about winter now? There's plenty of food in the summer!" As time passed, the weather changed, and winter arrived. The grasshopper was cold and hungry, with no food to eat. He went to the ant's house and begged for some food. The ant said, "You laughed at me when I was working hard during the summer. Now you see the value of preparation." The grasshopper, full of regret, realized his mistake. He learned that it's important to prepare for the future.

1. What was the grasshopper doing during the summer?

(a) Storing food (b) Playing and singing (c) Building a nest (d) Looking for water

2. Why was the ant working hard in the summer?

(a) She wanted to stay busy (b) She was preparing for the winter  
(c) She was competing with the grasshopper (d) She was building a new home

3. What did the grasshopper think about the ant's hard work?

(a) He admired the ant (b) He wanted to help the ant  
(c) He thought it was unnecessary (d) He was inspired by the ant

4. What happened to the grasshopper when winter arrived?

(a) He had plenty of food (b) He had no food to eat  
(c) He found food easily (d) He migrated to a warmer place

5. What did the grasshopper do when he was hungry in the winter?

(a) He asked the ant for food (b) He went looking for food  
(c) He tried to build a shelter (d) He waited for summer

6. What lesson did the grasshopper learn in the end?

(a) It's okay to be lazy (b) Preparing for the future is important (c)  
Summer is the best time

7. Find the word from the passage which has similar of 'be sorry about' or repent

8. Give the suitable title to the passage.

## SECTION –B

### WRITING SKILLS AND GRAMMAR

1. You are the Head of the Literature Club in your school. Write a notice informing the students that a book fair is being organised on the occasion of the World Book Day under 50 words.

2. Write an application to the Principal of your school for fee-concession.

3.;Write a paragraph on any one of the following topics-

A- MY SCHOOL

B- 1. Write an application to the Principal of your school for issuing transfer certificate

4. What is the 'Homophones'?

5. Fill in the blanks with suitable adverbs from the box given below. There are two extra words that you do not need.

|           |          |          |         |
|-----------|----------|----------|---------|
| Beautiful | Smoothly | Graceful | Quickly |
|-----------|----------|----------|---------|

A. He solved the mathematics problem \_\_\_\_\_.

B. The car moved \_\_\_\_\_ along the highway.

6. The poet says, 'With special friends I feel I'm **blessed**'.

Select the words that are similar to the meaning of being **blessed**, from those given below.

|         |          |            |          |         |
|---------|----------|------------|----------|---------|
| Excited | Grateful | Understood | Thankful | Relaxed |
|---------|----------|------------|----------|---------|

7. Complete the sentences with correct preposition:-

A. Dewali is ..... 10 November. ( on/ in / under)

B. Tom is hiding \_\_\_\_\_ the box. ( on/ at / behind)

8. Select the word which should be edited from the following sentences to make them grammatically correct.

A. She did not want to do work today.

(a) Did not                      (b) Want                      (c) Do                      (d) Today

B . I have wrote this song yesterday.

(a) This                      (b) Have                      (c) Yesterday                      (d) None of the  
above

9. Arrange the following words in the order that they make complete sense:-

A. are my toys these.

B. milk cow us gives.

10. Read the given sentences below and circle the adjectives.

A. The fox is a sly animal.

B. The homeless beggar hasn't eaten in days.

11. Find out the homophones used in the following sentence.

The woman told her son not to play in the sun.

12. Fill in the blanks with suitable adverbs given below. There are two extra words that you do not need. 1mark

Beautiful              Smoothly              Graceful              Quickly

A) He solved the mathematics problem \_\_\_\_\_.

B) The car moved \_\_\_\_\_ along the highway.

13. Expand the following words.

Can't \_\_\_\_\_              I'm \_\_\_\_\_

14. Fill in the blanks to complete the following sentences.

I \_\_\_\_\_ in Grade 6. [am+study+ing]

The teachers \_\_\_\_\_ in the staff room. [are+sit+ing]

15. Choose the correct option from the following sentences to make them grammatically correct.

A. She does not ..... to play today.

a) wants                      (b) Want                      (c) wanted                      (d) is wanting

B . I ..... this song yesterday.

a) sing                      (b) sung                      (c) sang                      (d) singing

16. Arrange the following words in the order that they make complete sense:-

A. are my toys these.

B. milk cow us gives.

17. Read the given sentences below and circle the adjectives.

A. The fox is a cunning animal.

B. The tall girl won the race.

## SECTION – C

### LITERATURE

1. Read the following extracts and answer the questions that follow choosing the best option from among the given ones.

I want to do much more than share

The hopes and plans of friends who care;

I'll try all that a friend can do

To make their wishes come true.

A. What is the central theme of the poem?

(a) Love and romance                      (c) Friendship and commitment

(b) Nature and beauty                      (d) Adventure and exploration

B. What does the speaker feel blessed with in the poem

(a) Wealth (b) Success (c) Special friends (d) Knowledge

C. These lines tell us that the speaker is \_\_\_\_\_

(a) Clever (b) Caring (c) Curious (d) Calm

D. How will the speaker make her friends 'wishes come true?

(a) By working hard (b) By working a lot (c) By caring (d) None of the above

E. What is the name of this poem?

2. Read the following extracts and answer the questions that follow:-

Mario, brave and determined, took the strange invisible chair and set off for school. At break time, he asked everyone to form a circle. He put himself in the middle, with his chair. "Nobody move. You're about to see something amazing."

A. What two qualities describe Mario in the passage?

B. What did Mario bring to school that was invisible?

C. Where did Mario place himself during break time?

D. Fill in the blanks with two words that describe the chair.

The chair is \_\_\_\_\_ and \_\_\_\_\_ .

E. What is the opposite word of 'Amazing'?

3. Answer the following questions.

(1) Mr Raven is a\_\_\_\_\_.(bird/frog)

(2) The words that describe the quality of a person or a thing are called \_\_\_\_\_.

(3) Write whether the following statements are True or False.

(A) Madhumati was troubled about what her husband did . [                      ]

(B) Rama Natha was very happy digging his fields.                      [                      ]

(4) Expand the following words.

What's \_\_\_\_\_ must've \_\_\_\_\_

(5) Fill in the blanks to complete the following sentences.

(a) I \_\_\_\_\_ in Grade 6. [am+study+ing]

(b) The teachers \_\_\_\_\_ in the staff room. [are+sit+ing]

(6) Choose the correct option.

The Wife says 'Ssssh! Listen!'. What does the word 'Ssssh' mean here ?

(a) Sleep (b) help (c) rest (d) be silent

7. Answer the following questions in 20-30 words.

- A. How could Rama Natha have a big banana plantation after six years?
- B. Why does Reynard say that pride is not wise?
- C. Give one reason why the man and his wife were not able to fall asleep.
- D. Why did Gajaraj not eat his food?
- E. Why does the speaker 'want to do more' for her friend?

8. Answer the question in 50 words.

- A. What is the use of trees in our life? Draw a picture of any tree and colour it.
- B. Note: It's a learning cum writing task to ensure conceptual learning, creativity, and originality.
- C. Answer any three of the following questions in 20-30 words.
- D. What did the sage ask Rama Natha to make the magic potion?
- E. Give one reason why the man and his wife were not able to fall asleep.
- F. Why did Gajaraj not eat his food?
- G. Why does the speaker 'want to do more' for her friend?
- H. Why does the Fox address the Raven as "Sir"?

9. Answer any one question in 50 words.

- A) Why does Reynard say that pride is not wise?
- B) Write the summary of the poem 'A Friend's Prayer'.

**Note: It's a learning cum writing task to ensure conceptual learning, creativity, and originality.**

### HOLIDAY HOME WORK

| CLASS | HOME WORK                                                                                                                                                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VI    | SOLVE SAMPLE PAPER FOR TERM -1 EXAMINATION<br>PREPARE EXHIBIT FOR BAL VAIGYANIK PRADARSHINI                                                                                                                                                                                                     |
| XI    | EXP: MEASURE DIAMETER, LENGH AND VOLUME OF A METAL CYLINDER BY VERNIER CALLIPERS.<br>SOLVE SAMPLE PAPER OF HALF YEARLY EXAMINATION SHARED ON WHATSAPP GROUP.<br>WRITE NOTES OF CHAPTER – SYSTEM OF PARTICLES AND ROTATIONAL MOTION                                                              |
| XII   | EXPERIMENT: DETERMINE FOCAL LENGTH OF CONCAVE MIRROR BY PLOTTING A GRAPH BETWEEN U & V<br>EXPERIMENT : DETERMINE REFRACTIVE INDEX OF LIQUID BY (I) CONVEX LENS (II) CONCAVE MIRROR<br>SOLVE QUESTIONS FOR PREBOARD EXAMINATION.<br>WRITE ACTIVITIES: WRITE THE ACTIVITES FOR BOARD EXAMINATION. |

M K CHATURVEDI

PGT PHYSICS

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 6 संस्कृत

1. अतिथीनां स्वागतं कथं करणीयं ? दश वाक्यानि लिखत ? अतिथियो का स्वागत सत्कार किस प्रकार करना चाहिए?
2. पञ्च महापुरुषानां जीवने विषये पञ्च-पञ्च वाक्यानि लिखत ? / पांच महापुरुषों के जीवन से संबन्धित 5-5 वाक्य लिखिए ?
3. अतिथि देवो भव पाठ के अव्यय पद, कर्ता पद व क्रिया पद चुनकर लिखिए ?
4. दश पुष्पो, फलो व रंगो के नाम संस्कृत में लिखिए ?

## MATHS WORKSHEET CLASS6 ( MID TERM)

### MULTIPLE CHOICE QUESTIONS

- 1) The smallest counting number is  
a) 0      b) 1      c) 10      d) none of these
- 2) Which number is neither prime nor composite  
a) 1      b) 2      c) 11      d) 5
- 3) Which one is a prime number  
a) 81      b) 87      c) 91      d) 97
- 4) Which of the following is prime  
a) 117      b) 171      c) 179      d) none of these
- 5) Which of the following is composite  
a) 23      b) 29      c) 32      d) none of these
- 6) Which of the following are coprime  
a) 39, 91      b) 161, 192      c) 385, 462      d) none of these
- 7) Which of these are coprime  
a) 8, 12      b) 9, 10      c) 6, 8      d) 15, 18
- 8) If a number is divisible both by 2 & 3 it is divisible by  
a) 4      b) 6      c) 8      d) 10
- 9) The smallest composite number is  
a) 4      b) 2      c) 0      d) 6
- 10) which one is coprime  
a) 18, 35      b) 7, 28      c) 105, 100      d) 20, 32
- 11) The only even prime number is  
a) 2      b) 6      c) 7      d) 8

12) The LCM of two coprime numbers  $x$  &  $y$  is

- a)  $xy$     b)  $x + y$     c)  $x/y$     d)  $x - y$

13) HCF of two coprime numbers is

- a) The smaller number    b) The larger number    c) 1    d) none of these

14) Every counting number has infinite number of

- a) factors    b) multiples    c) prime factors    d) none of these

15) The least number that should replace  $*$  so that  $67301*2$  is exactly divisible by 9

- a) 5    b) 6    c) 7    d) 8

16) Which number is divisible by 11

- a) 90728    b) 76844    c) 24571    d) none of these

17) The number of lines that can be drawn from one point

- a) 1    b) 2    c) infinite    d) zero

18) An angle whose measure is equal to one revolution is

- a) straight angle    b) complete angle    c) rightangle    d) obtuseangle

19) The minimum number of sides in a polygon is

- a) 2    b) 4    c) 5    d) 3

20) If two lines have no common point they are called

- a) parallel lines    b) perpendicular lines    c) intersecting lines    d) none of these

21) Point of concurrence is the point where

- a) two lines intersect  
b) two lines are perpendicular  
c) three or more lines meet  
d) none of these

22) Which statement is false

a) Ray has one end point

b) A line segment has two end points

c)  $\overleftrightarrow{AB}$  represents a line

d) Cross road is an example of parallel lines

23) How many lines can be drawn between two points

a) 2    b) infinite    c) only one    d) four

24) The figure formed by two rays with same initial point is called

a) a ray    b) a line    c) an angle    d) none of these

25) An angle measuring  $91^\circ$  is a

a) an acute angle    b) an obtuse angle    c) a reflex angle    d) acute angle

26) An angle measuring  $200^\circ$  is

a) an acute angle    b) an obtuse angle    c) a reflex angle    d) acute angle

27) A reflex angle measures

a) more than  $180^\circ$  less than  $270^\circ$     b) more than  $180^\circ$  less than  $360^\circ$     c) more than  $90^\circ$  less than  $180^\circ$     d) none of these

28)  $\frac{3}{2}$  right angles =

a)  $115^\circ$     b)  $135^\circ$     c)  $270^\circ$     d)  $360^\circ$

29) If there are 36 spokes in a bicycle wheel, the angle between a pair of adjacent spokes is

a)  $15^\circ$     b)  $12^\circ$     c)  $10^\circ$     d)  $18^\circ$

30) The number of sides in a nanogon is

a) 10    b) 9    c) 7    d) 5

31) The tally mark  represents the number

a) 6    b) 4    c) 5    d) 7

32) Which number comes next in the sequence of hexagonal numbers 1, 7, 19

a) 28    b) 37    c) 44    d) 52

33) 1 , 3 , 9 , 27 , 81 , 243 are called

a) cubic numbers    b) square numbers    c) hexagonal numbers    d) perfect numbers

34) Which number is a triangular number as well as square number

a) 81    b) 16    c) 36    d) 100

35) which number is a palindromic number

a) 363    b) 123    c) 269    d) 325

36) The smallest number whose digit sum is 15:

(a) 69    b) 96    c) 78    d) 87

Q37) What is the defining characteristic of a palindrome

- a) It is divisible by 10
- b) It is a prime number
- c) It has no repetition of digits
- d) It reads the same forward & backward

Q38) Find the rule of the pattern 5 , 10 , 20 , 40 , 80

- a) Multiply by 5
- b) Add 10
- c) Add 5
- d) Multiply by 2

Q39) ASSERTION : The sequence 2, 4, 6, 8, 10, ..... follows a pattern of even numbers

REASON : Even numbers are divisible by 2

- a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false.
- (d) A is false but R is true

Q40) Which of the following is the kaprekar constant

- a) 6174      b)7416      c)1746      d)4167

Q41) If a number is even what do you do in collatz sequence

- a)divide the number by 2  
b) divide number by 3  
c)multiply by 2  
d)multiply by 3 and 1

Q42)The diagram in which data is represented by pictures is

- a) Bargraph   b)piechart   c) pictograph   d) frequency table

Q43) If one X is equal to 4 persons then XXXX represents

- a) 11      b)12      c)16   d)20

Q44) The given figure is an example of

- a) line      b) line segment      c) ray      d)point



Beam of light from a lighthouse

Q45) The angle in given figure is

- a) acute angle      b)obtuseangle   c)right angle   d)straight angle

Q46) The number of acute angles in the figure are

- a) 12      b)10      c)16      d)8



Q47 ) Write down all factors of - 20 , 36 , 60 , 75 , 88 , 216 , 300, 102 , 343

Q48)Write first five multiples of – 17 , 23 , 9 , 32

Q49) Write down all prime numbers a) 10& 40   b) 80 &100   c) 40 & 80   d)30 &40

Q50) Write 4 pairs of twin primes

Q51) What are perfect numbers ? Give examples

Q52) Explain which of the following pairs of numbers are coprime

a)18 & 35 b) 15 & 37 c) 30 & 415 d)17 & 68 e)216 & 215 f) 81& 16

Q53) Prime factorise the following numbers

18 , 48 , 56 , 90 , 136 , 252 , 420 , 637 , 945 , 1224 , 1035 , 8712 , 13915

Q54) Find LCM & HCF of a) 42 , 63 b)60 ,75 c)12,18 ,20 d)36 ,60, 72 e)36 , 40 , 126 f) 144 , 180 ,384 g) 117,221

55) Find common factors of : a) 20 ,28 b)15 & 25 c)35&50 d)56&120 e)4 ,8 &12 f)5 ,15 &25 f)75 ,60 &210

56)Find first three common multiples of a)6 & 8 b)12 & 18 c)3,4& 9

Q57 ) Test divisibility by 11 : 4334 , 83721 , 66311 137269 901351

Q58) Test divisibility by 7 : 826 , 6021 , 14126 , 25368

Q59) Test divisibility by 9 : 2358 , 647514 , 98712, 257106

Q60) Express as the sum of two odd primes : 36 ,42 , 84 , 98

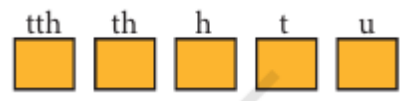
Q61) Express as the sum of three odd primes : 31 , 35 , 63 , 49

Q62) Express as the sum of twin primes : 36 , 84 , 120 ,144

Q63)What is kaprekar constant , take any 4 digit number & write the steps of reaching kaprekar constant

Q64) Solve the puzzle

i)Iam a 5 digit palindrome ii) Iam an odd number iii) My thousand digit is double of my unit digit iv) My hundred digit is double of my thousand digit v) Who Iam ?



Q65) Draw a rough sketch of a regular hexagon join any three of its vertices . Which shape is formed

Q66) Draw a rough sketch of an octagon . Join any of its four vertices , name the shape so formed

Q67) Identify which 3D shape ( cuboid , cylinder , sphere , cone , cube ) is similar to which material from the following - Instrument box , brick , a match box , a road roller , icecream cone , a sweet laddu , dice

Q68) Match the columns

Measures of triangle

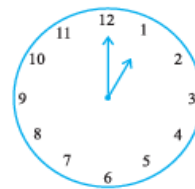
type of triangle

i)3 sides of equal length

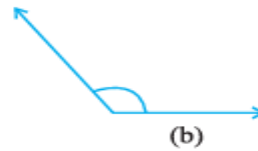
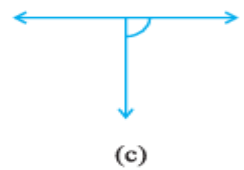
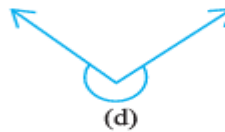
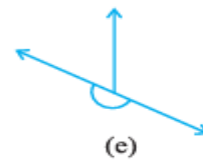
scalene

- |                                        |                    |
|----------------------------------------|--------------------|
| ii) 2 sides of equal length            | Isosceles triangle |
| iii) All sides are of different length | Obtuse angle       |
| iv) 3 acute angles                     | Right angled       |
| v) 1 right angle                       | Equilateral        |
| vi) 1 obtuse angle                     | Acute angled       |
| vii) 1 right angle with 2 sides equal  | Isosceles          |

Q69) Find the angle between hands of clock in each figure



Q70) Classify the following angles as acute angle, right angle, obtuse angle, straight angle, reflex angles



Q71) Where will the hand of clock stop if it a) starts at 12 makes half revolution clockwise b) starts at 2 & makes half revolution clockwise c) starts at 5 makes one fourth of a revolution clockwise d) starts at 5 makes  $\frac{3}{4}$  th of a revolution clockwise

Q72) Which direction you will face if you start facing

- east & make half revolution in clockwise direction
- east &  $1\frac{1}{2}$  of a revolution clockwise
- west & make  $\frac{3}{4}$  th of a revolution in anticlockwise direction
- south & make full revolution

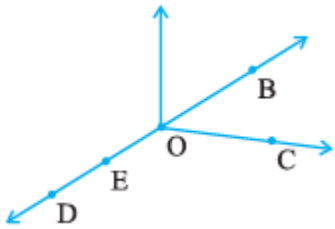
Q73) Find the number of right angles turned through by hour hand of a clock when it goes from a) 3 to 6 b) 2 to 8 c) 5 to 11 d) 12 to 9 e) 10 to 1

Q74) Draw a circle & mark a) its centre b) a radius c) a diameter d) a point in the interior e) a point in the exterior f) an arc g) a sector h) a segment

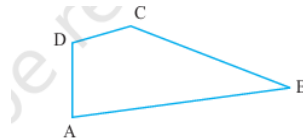
Q75) Draw a quadrilateral KLMN state

a) 2 pairs of opposite sides b) 2 pairs of opposite angles c) 2 pairs of adjacent angles d) 2 pairs of adjacent angles

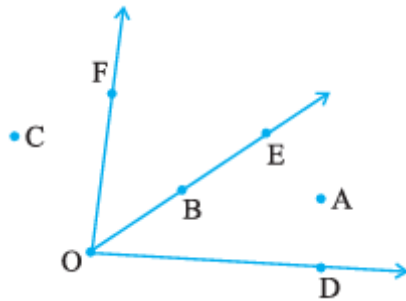
Q76) Use the figures to name : a) 5 points b) a line c) 3 rays d) 2 line segments



Q77) Name the angles in the given fig



Q78) In the given diagram name the points a) in the interior of  $\angle DOE$  b) in the exterior of  $\angle EOF$  c) on  $\angle EOF$

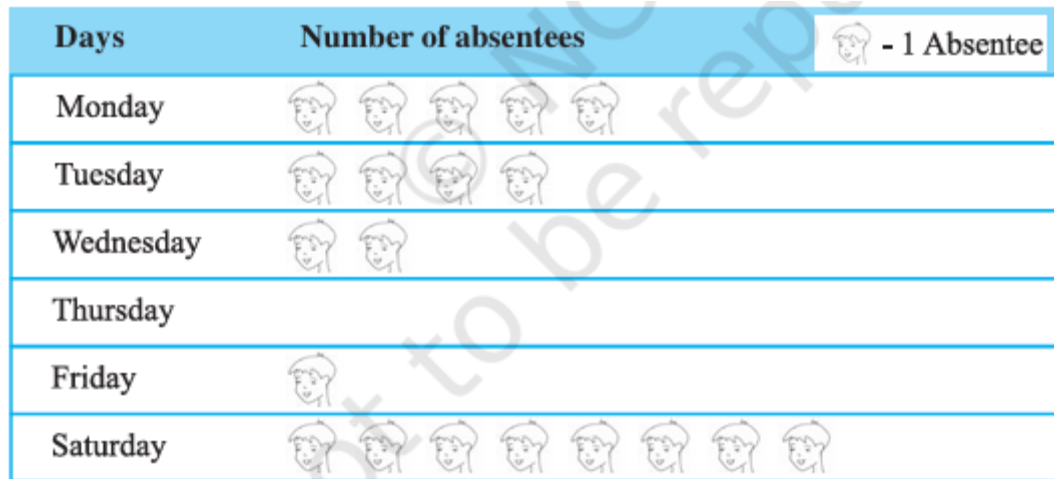


Q79) Draw a rough diagram of two angles such that a) one point in common b) 2 points in common c) 3 points in common d) 4 points in common

Q80) The following are the number of electric bulbs purchased for a year during first four months of a year. Draw a pictograph

| month    | Number of bulbs |
|----------|-----------------|
| january  | 20              |
| february | 28              |
| march    | 32              |
| april    | 40              |

Q81) Following pictograph shows number of absentees in a class of 30 students during the previous week

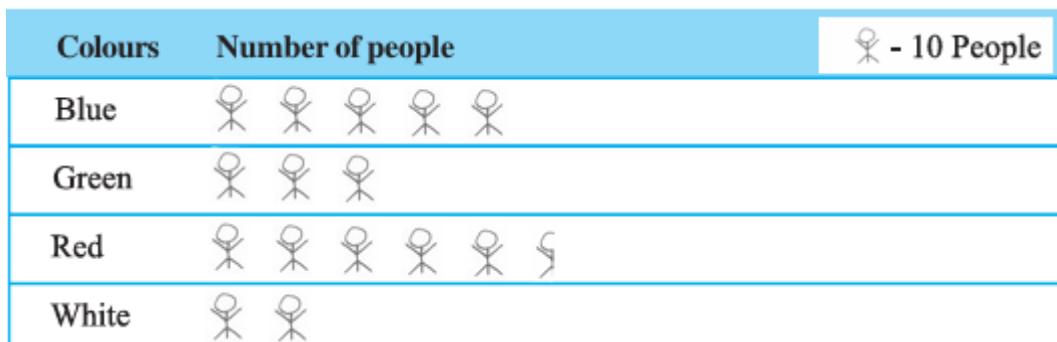


i) on which day maximum number of students were absent

ii) Which day has full attendance

iii) what was the total number of absentees in that week

Q82) The colour of fridges preferred by people living in a locality are shown by pictograph



a) Find the number of people preferring blue colour

b) How many people liked red colour

Q 83) What is the pattern of numbers 1,3,5,7,9 ..... called write the next 3 members

Q 84) What is the pattern of numbers 2,4,6,8,10 ..... called write the next 3 members

Q85) What is the pattern of numbers 1, 4, 9,16, 25 ..... called write the next 3 members

Q86) What is the pattern of numbers 1,8,27,64 ..... called write the next 3 members

Q87) What is the pattern of numbers 1,3,6,10,15 ..... called write the next 3 members

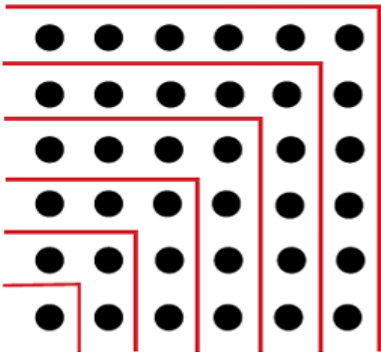
Q 88) What is the pattern of numbers 1,2,3,5,8 ..... called write the next 3 members

Q89) What is the pattern of numbers 1,2,4,8,16 ..... called write the next 4 members

Q 90) What is the pattern of numbers 1,3,9 ,27, 81 ..... called write the next 4 members

Q91) Write pictorial representation first 4 of triangular , square, odd ,even & hexagonal numbers

Q 92)Write the sequence of number of dots in the following



Q93) What is polygon ? Draw polygon upto 10 sides

Q 94)Mark the super cells in table below

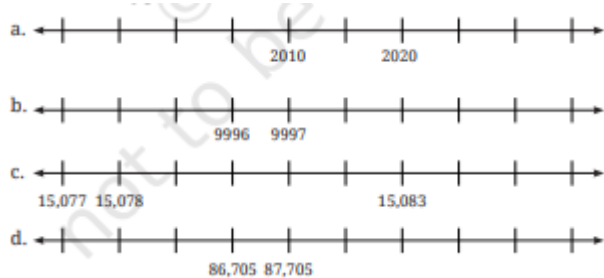
|      |     |      |      |      |      |      |      |    |
|------|-----|------|------|------|------|------|------|----|
| 6828 | 670 | 9435 | 3780 | 3708 | 7308 | 8000 | 5583 | 52 |
|------|-----|------|------|------|------|------|------|----|

Q95)Fill the blanks with four digit numbers such that coloured cells are

Super cells

|      |  |      |  |  |  |      |  |
|------|--|------|--|--|--|------|--|
| 5346 |  | 1258 |  |  |  | 9635 |  |
|------|--|------|--|--|--|------|--|

Q96) Identify and mark the remaining positions on the number line



Q97) Find the difference between largest & smallest 4 digit numbers using digits 3 ,8 ,2 ,4

Q 98)Write collatz sequence starting from 13

Q 99)Start with number 3524 & apply kaprekar process for 2 steps

Q 100)Complete the table

Complete the table

| Sweets      | Tally Marks | No. of Students |
|-------------|-------------|-----------------|
| Jalebi      |             | 6               |
| Gulab jamun |             | 9               |
| Gujjya      |             | _____           |
| Barfi       |             | _____           |
| Rasgulla    |             | _____           |

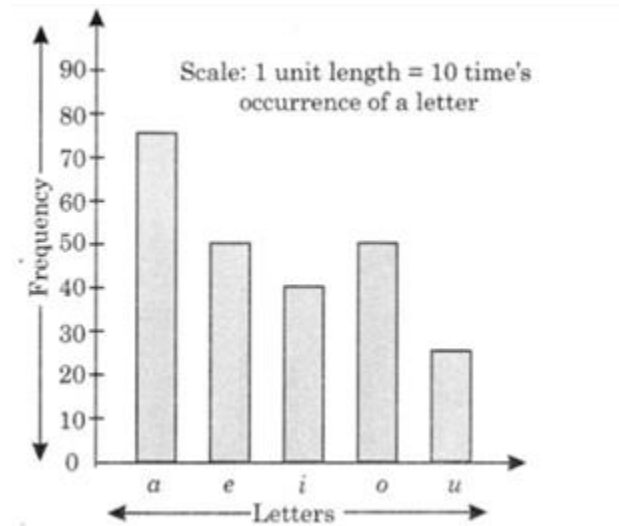
Q 101)The bar graph represents frequency of a, e, i, o, u in a piece of English writing .

Answer the questions below

- a) Which letter maximum times
- b) Which letter occurred 40 times
- c) Which letter occurred less than 30 times

Q Using protractor draw angle of following degree measures

78. , 89, 123 , 35 , 172 , 90



case study based questions

Q72) See the figure & answer the following questions

a) which type of figure is it

a) 2D b) 3D c) 4D d) 5D

b) what is the name of this shape

a) cube b) cuboid c) pyramid d) cone

c) number of edges in the shape

a) 6 b) 8 c) 12 d) 10

d) number of faces

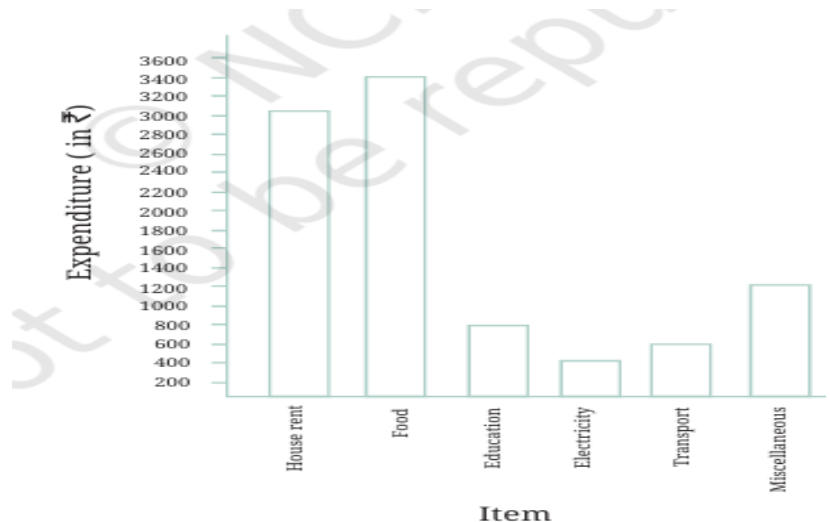
a) 4 b) 6 c) 9 d) 10

Q73) Following graph shows monthly expenditure of sheeba's family . Answer the questions below from the graph

a) what is the monthly expense on education

b) on which expense highest expenditure is done

c) find the difference between house rent & transport expenses



19

### Idli-Vada Game

Q74)

Children sit in a circle and play a game of numbers.

One of the children starts by saying '1'. The second player says '2', and so on. But when it is the turn of 3, 6, 9, ... (multiples of 3), the player should say 'idli' instead of the number. When it is the turn of 5, 10, ... (multiples of 5), the player should say 'vada' instead of the number. When a number is both a multiple of 3 and a multiple of 5, the player should say 'idli-vada'. If a player makes any mistake, they are out.

The game continues in rounds till only one person remains.

Answer the below questions

i) From the given below for which number students say idli

a) 9 b) 11 c) 8 d) 13

ii) From the given below for which number students say vada

- a) 10    b)12    c)16    d) 21

iii) For which number they will say idli vada first time

- a)15    b)18    c)25    d)19

iv) from below numbers which is a common multiple of 3 & 5

- a)36    b) 24    c)30    d)25

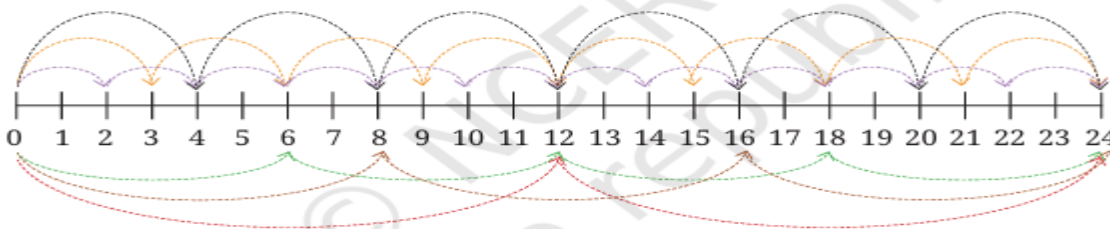
Q75)

#### Jump Jackpot

Jumpy and Grumpy play a game.

- Grumpy places a treasure on some number. For example, he may place it on 24.
- Jumpy chooses a jump size. If he chooses 4, then he has to jump only on multiples of 4, starting at 0.
- Jumpy gets the treasure if he lands on the number where Grumpy placed it.

Jumps are shown below



i) What is the biggest jump size from 0 to 24

- a) 24    b) 6    c) 8    d) 12

ii) what these jump sizes represent

- a) Factors of 24    b) multiple of 24    c) prime factors    d) none of the above

iii) grumpy kept the treasure at 2 places 14 & 36 which jump size will enable him to reach both treasures

- a) 2    b) 3    c) 2, 1    d) only 1

Q Samanta visited a tea garden and collected insect samples as shown below . Prepare a bar graph from the data

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Mites                                                                               | Caterpillars                                                                        | Beetles                                                                             | Butterflies                                                                         | Grasshoppers                                                                         |
| 6                                                                                   | 10                                                                                  | 5                                                                                   | 3                                                                                   | 2                                                                                    |

Q A gardener plants 48 marigold plants and 64 rose plants in equal rows.

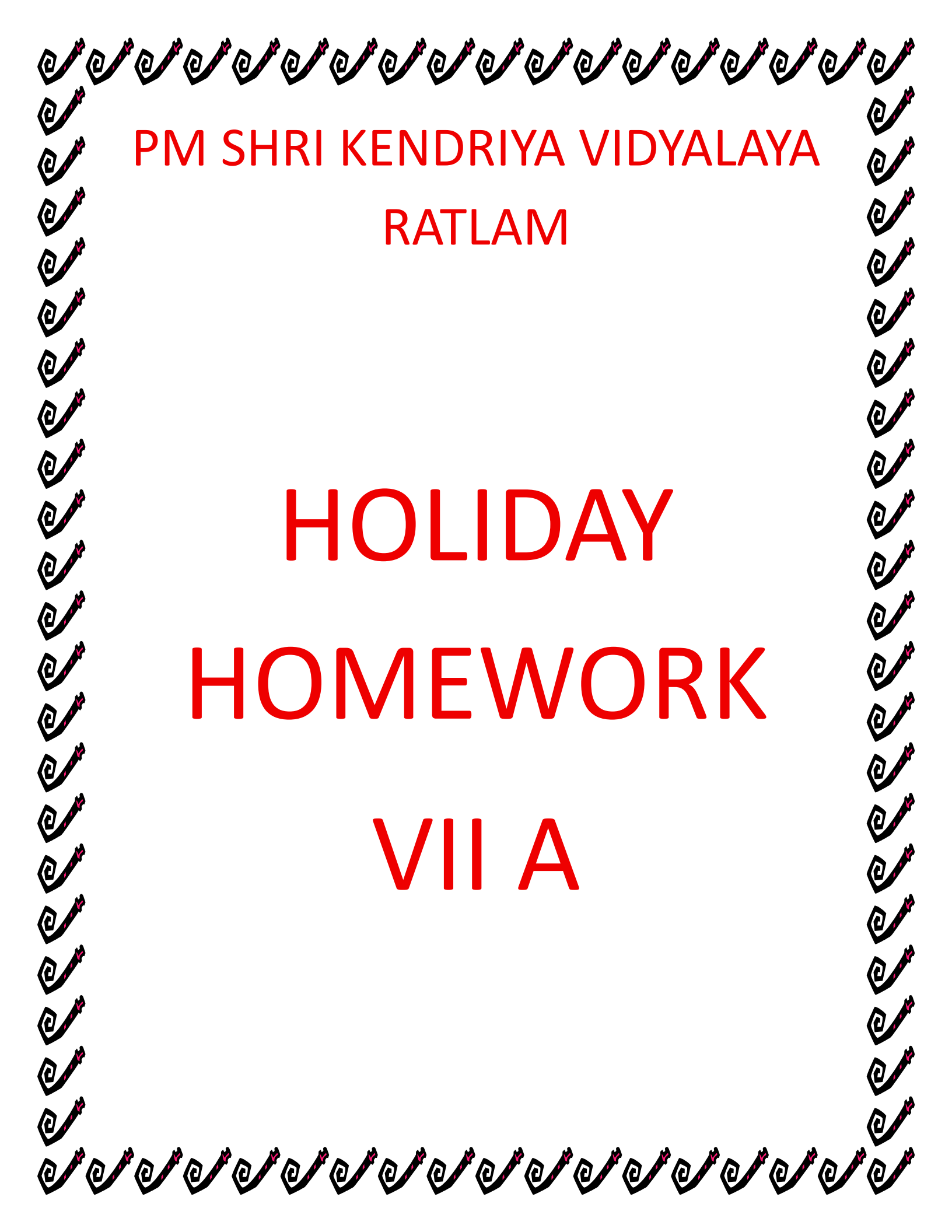
a) What is the greatest number of plants that can be in one row (HCF)?

b) How many rows of each type of plant will he have?

Q Read the situation and answer the questions:

Riya has two ribbons, one 60 cm long and the other 72 cm long. She wants to cut them into equal pieces of the longest possible length.

- a) What length of ribbon pieces will she cut?
- b) How many pieces of ribbon will she get in total?
- c) Which concept is used to solve this problem?



PM SHRI KENDRIYA VIDYALAYA  
RATLAM

HOLIDAY  
HOMEWORK  
VII A

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 7 संस्कृत

1. क्रीडामः वयं श्लोक अन्त्याक्षरी पाठ के सुभाषितो का भावार्थ मातृभाषा में लिखिए ?
2. मनुष्य के कीन्ही पांच मानवीय गुणो की विशेषता पर 5-5 वाक्य लिखिए ?
3. पञ्च महापुरुषानां जीवने विषये पञ्च -पञ्च वाक्यानि लिखत ? / पांच महापुरुषो के जीवन से संबन्धित 5-5 वाक्य लिखिए ?
4. विद्या व कवि शब्दो के शब्दरूप लिखे व याद करे

Section A: Reading

Q1. Read the passage carefully and answer the questions:

The sun had just set behind the hills, casting a warm orange glow across the meadow. Sarah and her friends gathered near the old oak tree, their laughter filling the air. They were planning a camping trip for the weekend...

- (a) What is the title of the passage?
- (b) What were Sarah and her friends planning?
- (c) Who told ghost stories around the campfire?
- (d) How did the flickering flames affect the atmosphere?
- (e) What sounds did the campers hear as they lay in their sleeping bags?
- (f) What did Sarah feel under the starlit sky?

Q2. Read the passage carefully and answer the questions:

In a quaint antique shop downtown, Emma stumbled upon an old pocket watch with intricate engravings...

- (a) Where did Emma find the old pocket watch?
- (b) What happened when Emma wound up the watch?
- (c) Where did Emma find herself after using the watch?
- (d) Who did Emma meet in the grand castle?
- (e) How did Emma return to her own time?
- (f) Write the opposite word of Curiosity.

Q3. Read the passage carefully and answer the questions:

The drink of Asia for hundreds of years, tea is believed to have been brought to Europe by the Dutch...

- (a) Who introduced tea in Europe?
- (b) Which method is a new and convenient way of making tea?
- (c) In which country is the tea ceremony a social occasion?
- (d) Name the diseases for which tea is a remedy.
- (e) \_\_\_\_\_ tea is popular in China and Far East.
- (f) Find the words from the passage that mean:

(i) A new method

(ii) Solution

Q4. Read the passage carefully and answer the questions:

The rate at which forests are disappearing in the Himalayan region is so rapid that this flourishing mountain chain could be reduced...

(a) Kullu valley was previously—

(i) Inhabited by wild animals

(ii) Covered with Deodars

(iii) Not densely populated

(iv) Both (i) and (iii)

(b) It is nightmarish to know that—

(i) Animals will die of hunger

(ii) Men will not get any water

(iii) 53% of the total land area will face devastation

(iv) The world will end soon

(c) Rainwater affects the land as—

(i) Of horror

(ii) Of a tiger

(iii) Of impending danger

(iv) Of beauty

(d) The disaster due to rising water level can be—

(i) Forest fires

(ii) Tsunami

(iii) Floods

(iv) Waterfall

(e) Erosion of Himalayan topsoil has resulted—

(i) In the Bay of Bengal

(ii) In creating a new island

(iii) In the fertility of its land

(iv) Both (i) and (iii)

(f) Find out the meanings of:

(i) Bedecked

(ii) Denuded

#### Section B: Writing

Q5. Write a notice on any ONE of the following:

(a) Debate Competition to be held on 25th September.

(b) Lost purse with money and papers—inform the students to claim.

Q6. Write an application OR a letter:

(a) Application to the Principal requesting change of section.

(b) Letter to your friend describing your birthday party.

(c) Letter inviting a friend to your brother's marriage.

(d) Application to the Principal for one week's leave due to viral fever.

Q7. Write a paragraph on any ONE topic:

(a) Importance of Education

(b) An Ideal Student

(c) Importance of Trees

(d) Good Manners

(e) A Journey by Train

#### Section C: Grammar

Q8. Fill in the blanks according to Present Indefinite Tense:

(a) \_\_\_\_\_ they go to school every day?

(b) My mother always \_\_\_\_\_ me a glass of milk in the morning. (Give)

(c) \_\_\_\_\_ he write a letter?

(d) We \_\_\_\_\_ not play football.

Q9. Fill in the blanks with suitable Modals:

(a) It \_\_\_\_\_ rain heavily.

(b) He \_\_\_\_\_ lift this heavy box.

(c) The Police \_\_\_\_\_ protect us.

(d) You \_\_\_\_\_ pay your bill on time.

Q10. Fill in the blanks using the verb in Present Continuous or Present Perfect Continuous Tense:

(a) The students \_\_\_\_\_ (organise) apply and setting up the stage.

(b) The performers \_\_\_\_\_ (rehearse) every day, and their excitement is growing.

Q11. Fill in the blanks with suitable Phrasal Verbs (take up, take after, take in, take over, take off):

(a) The new technology is set to \_\_\_\_\_ traditional methods of communication.

(b) Arjun decided to \_\_\_\_\_ painting as a hobby.

Q12. Create compound words from the table:

Fun – a) Head

High – b) Birds

Never – c) Flying

Early – d) Loving

Song – e) Risers

Over – f) Tops

Tree – g) Ending

Q13. Write the opposites:

(a) Glad

(b) Succeed

Section D: Literature

Q14. Tick True/False:

(i) The funny man smiled at the poet.

(ii) Polynesia had been munching while talking to Doctor Dolittle.

(iii) The author expresses a deep longing to experience the world.

(iv) Mary finds the dog outside the window cute.

Q15. Read the extract and answer:

One day a funny kind of man

Came walking down this street...

(a) The man wore shoes on his feet and a hat on his head. (True/False)

(b) Where did the man wear his shoe?

(c) What was unusual about his clothing?

(d) Write the synonym of Kind.

Q16. Read the extract and answer:

"I would like a pair like yours," said the horse—"only green..."

(a) Doctor Dolittle's attitude in the extract is—

(i) Respectful

(ii) Sentimental

(iii) Understanding

(iv) Careful

(b) The plough horse needed—

(i) Black goggles

(ii) Blue goggles

(iii) Powered glasses

(iv) Green goggles

(c) The plough horse was happy to find a doctor who—

(d) From which chapter are these lines taken?

Q17. Read the extract and answer:

He said, "Allow me to present

Your Highness with a rose..."

(a) Why does the funny man address the poet as "Your Highness"?

(b) Pick a phrase that indicates a polite request.

(c) What is a currant bun?

(d) Complete: When the poet says, "well," it expresses surprise because \_\_\_\_\_.

Q18. Read the extract and answer:

Mary: I saw Mrs. Cotter this afternoon...

(a) Mary could spot Mrs. Cotter in the street because \_\_\_\_\_.

(b) What does Mary's comment about Mrs. Cotter suggest about her understanding?

(c) How can we say Mary enjoyed good health?

(d) True/False: Mary might have unintentionally offended Mrs. Harding.

Q19. Answer ANY FOUR short questions:

(a) Which sense is described as the most delightful?

(b) Who was Dr. Dolittle?

(c) What did the funny man wear on his head?

(d) Who is Mrs. Harding?

- (e) How can we say Polynesia was a good trainer of animal language?
- (f) What do you think the repeated stage direction 'No one speaks' indicates?

Q20. Answer ANY TWO long questions:

- (a) How does the author encourage people to approach their everyday sensory experiences?
- (b) What does the poet convey by highlighting the funny man's unusual behaviour?
- (c) Why did Mary insist on staying with her mother when the guests arrived?
- (d) What qualities of Dr. Dolittle made him famous among animals?
- (e) Why is it important to be polite to guests? Do you think Mary will follow her mother's advice when Mrs. Harding and Mrs. Lee visit?

**Note: It's a learning cum writing task to ensure conceptual learning, creativity, and originality.**

## CLASS VII AUTUMN BREAK HOLIDAY HOME WORK

1) Consider the following statements about litmus paper and select the correct ones.

I. Blue litmus paper turns red in acidic solutions.

II. Red litmus paper turns blue in basic solutions.

III. Litmus paper is made from algae.

IV. Litmus is used as an acid-base indicator.

Choose the correct option.

(a) I, II, and IV

(b) II and III

(c) I, III, and IV

(d) II, III, and IV

2) Exploring Substances Acidic Basic and Neutral Class 7 Worksheet with Answers Science Chapter 2

July 15, 2025 by Veerendra

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Class 7 Worksheets Science Chapter Worksheets

Our subject specific Class 7 Science Curiosity Worksheet and Class 7 Science Chapter 2 Exploring Substances Acidic Basic and Neutral Worksheet with Answers Pdf are aligned with latest patterns.

Class 7 Science Chapter 2 Exploring Substances Acidic Basic and Neutral Worksheet

Class 7 Exploring Substances Acidic Basic and Neutral Worksheet

Worksheet On Exploring Substances Acidic Basic and Neutral Class 7 – Exploring Substances Acidic Basic and Neutral Worksheet Class 7

A. Objective Type Questions

Multiple Choice Questions

Question 1.

Consider the following statements about litmus paper and select the correct ones.

- I. Blue litmus paper turns red in acidic solutions.
- II. Red litmus paper turns blue in basic solutions.
- III. Litmus paper is made from algae.
- IV. Litmus is used as an acid-base indicator.

Choose the correct option.

- (a) I, II, and IV
- (b) II and III
- (c) I, III, and IV
- (d) II, III, and IV

2. Which of the following is a feature of acidic substances?

- (a) Turns red litmus paper blue
- (b) Turns blue litmus paper red
- (c) Feels slippery
- (d) Has a bitter in taste

3. Which of the following is not a property of bases?

- (a) They turn red litmus paper blue.
- (b) They have a bitter taste.
- (c) They feel slippery.
- (d) They are sour.

4. Which of the following is an example of a basic substance?

- (a) Vinegar
- (b) Lemon juice
- (c) Soap solution
- (d) Orange juice

5. Select the incorrect match pair regarding acids and bases.

- (a) Vinegar – Acid

- (b) Baking soda – Base
- (c) Lemon juice – Base
- (d) Soap solution – Base

**Fill in the blanks by choosing the appropriate words from the box given below.**

Basic, acidic, formic, neutralization, lichens, tomato, lemon, bitter, slippery

- (a) Litmus is obtained from \_\_\_\_\_ and is used as an acid-base indicator.
- (b) Substances that turn blue litmus paper red are \_\_\_\_\_ in nature.
- (c) Baking soda solution feels \_\_\_\_\_ when rubbed between fingers.
- (d) Turmeric paper can be used to test for \_\_\_\_\_ substances.
- (e) The process of mixing an acid with a base is known as \_\_\_\_\_
- (f) The fish population in a lake can decline due to \_\_\_\_\_ waste being released into the water.
- (g) To neutralise acidic factory waste in the lake, \_\_\_\_\_ substances should be added.

**Write 'T' for True or 'F' for False for the following statements.**

- (a) The taste of a substance can always be a reliable method to determine whether it is acidic or basic.
- (b) Lemon juice is an example of an acidic substance.
- (c) Baking soda solution turns red litmus paper blue, indicating it is acidic.
- (d) Extract of red rose gives red colour in basic solutions.
- (e) Turmeric turns red in basic solutions.
- (f) Turmeric paper can differentiate between acidic and neutral substances.

**Assertion-Reason Questions**

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

Question 1.

Assertion: Litmus is extracted from Lichens.

Reason: Blue litmus paper remains blue in distilled water.

Question 2.

Assertion: Solutions that do not change the colour of red or blue litmus are called basic solutions.

Reason: Acidic solutions turn blue litmus red.

Question 3.

Assertion: Coffee has a bitter taste.

Reason: Substances that are bitter and feel soapy to the touch are known as bases

Question 4.

Assertion: Red rose petals can be used as a natural acid-base indicator.

Reason: The red rose extract gives red colour in acidic solution and green colour in basic solution.

Question 5.

Assertion: Factory waste should be neutralised by adding basic substances.

Reason: When factory waste is released into water bodies, it affects aquatic life.

#### CASE BASED QUESTION

Anita was helping her mother in the kitchen. She accidentally spilled some turmeric paste on her apron. Later, she cleaned the stain using soap and water. To her surprise, the yellow turmeric stain turned red where the soap touched it. Anita got curious and decided to mix the turmeric paste with vinegar and baking soda.

Question 1.

What property of turmeric does this experiment show?

- (a) It is used for cooking.
- (b) It is yellow.
- (c) It can act as a natural indicator.
- (d) It dissolves in water.

Question 2.

What happens when baking soda is added to turmeric paste?

- (a) No change
- (b) It turns black
- (c) It turns red
- (d) It remains yellow

Question 3.

What will happen if vinegar is added to the turmeric paste?

- (a) It turns green
- (b) It turns black
- (c) It turns red
- (d) It remains yellow

## CHAPTER- ELECTRICITY

### Multiple Choice Questions

Question 1.

What does an open circuit indicate?

- (a) The switch is ON and current is flowing through the circuit.
- (b) The switch is OFF, and no current is flowing through the circuit.
- (c) Switch is OFF and current is flowing through the circuit.
- (d) None of the above

Question 3.

Which of the following is a good conductor of electricity?

- (a) Human body
- (b) Wooden stick
- (c) Iron coin
- (d) Air

Question 4.

A circuit diagram shows a cell, a bulb, and wires, but no switch. What will happen when this circuit is connected?

- (a) The bulb will blink
- (b) The bulb will not glow
- (c) The bulb will glow continuously
- (d) The cell will turn off

Question 5.

A metal spoon is connected between two terminals of a battery with a bulb in the circuit. The bulb glows. What does this show?

- (a) The spoon is hot
- (b) The spoon is an insulator
- (c) The spoon is a conductor
- (d) The spoon stores charge

Question 6.

Identify the incorrect statement from the following.

- (a) When a circuit is in the off position, no current flows through it.
- (b) When an electric current flows through a wire, it behaves like a magnet.
- (c) Incandescent electric bulbs are better electricity-efficient lighting sources.
- (d) The positive terminal of one cell is always connected to the negative terminal of the next cell.

A teacher demonstrates a working circuit using an LED. She reverses the connections, and the LED stops glowing. Why?

- (a) LED works only with AC.
- (b) The LED gets damaged easily.
- (c) LED allows current in only one direction.
- (d) LED consumes too much energy.

Question 6.

Identify the incorrect statement from the following.

- (a) When a circuit is in the off position, no current flows through it.
- (b) When an electric current flows through a wire, it behaves like a magnet.
- (c) Incandescent electric bulbs are better electricity-efficient lighting sources.
- (d) The positive terminal of one cell is always connected to the negative terminal of the next cell.

Question 7.

Which of the following statements is true regarding the given circuit diagram?

- (a) The compass needle is showing deflection.
- (b) The electric bulb is glowing.
- (c) The potential of the battery is decreasing.
- (d) The circuit is open as the wire is broken

Question 8.

A teacher demonstrates a working circuit using an LED. She reverses the connections, and the LED stops glowing. Why?

- (a) LED works only with AC.
- (b) The LED gets damaged easily.
- (c) LED allows current in only one direction.
- (d) LED consumes too much energy.

Question 9.

Which of the following is not needed for a torch to work?

- (a) A bulb or LED
- (b) A switch
- (c) A fuse
- (d) A battery

Question 10.

A student connects an electric cell directly to a bulb using wires, but the bulb does not glow. Which of these is the most likely reason?

- (a) The wires are too short.
- (b) The cell is placed upside down.
- (c) The circuit is not complete.
- (d) The bulb is facing downward.

Question 11.

When you press the switch of a torch, the bulb glows. What does this action do inside the torch?

- (a) Change the battery.
- (b) Breaks the circuit.
- (c) Completes the circuit and allows current to flow.
- (d) Reduces the brightness of the bulb

Question 12

A student builds a circuit with a battery, switch, and a lamp. The lamp glows only when the switch is ON. What does this show about the role of the switch?

- (a) It increases the power.

- (b) It connects the cell and lamp permanently.
- (c) It controls the flow of current by opening or closing the circuit.
- (d) It makes the lamp brighter.

Question 13

In a circuit diagram, the symbol “| |” represents which component?

- (a) Electric bulb
- (b) Battery (combination of cells)
- (c) Switch
- (d) Wire

Question 14.

A student touches both terminals of a cell with her dry finger. What happens?

- (a) She feels a shock.
- (b) Current flows through her hand.
- (c) No current flows.
- (d) The cell gets damaged.

Question 15.

A circuit is shown with a lamp, a cell, a switch, and connecting wires. The bulb does not glow even when the switch is ON. What should the student check first?

- (a) If the wires are colourful.
- (b) If the cell is brand new. (c) If the lamp is getting hot. (d) If all connections are tight and complete

Fill in the Blanks

Question 1.

Fill in the blanks by choosing the appropriate words given with each sentence.

- (a) A continuous and closed path of electric current is called a \_\_\_\_\_.  
[conductor/circuit/insulator]
- (b) A device that is used to break or complete a circuit is called a \_\_\_\_\_. [cell/lamp/switch]
- (c) A bulb glows when current passes through its thin wire called \_\_\_\_\_. [filament/fuse/coil]
- (d) An \_\_\_\_\_ [LED/fuse/switch] glows even with a small current and is used in decorative lights.

(e) The metal \_\_\_\_\_ [aluminium/iron/copper] is used in electric wires because it is a good conductor.

Question 2.

Complete the statements by using suitable words.

(a) A device that opens or closes a circuit is called a \_\_\_\_\_.

(b) In a circuit diagram, a battery is represented by a combination of \_\_\_\_\_ and \_\_\_\_\_ lines.

(c) When the switch is in the 'off position, the electric circuit is said to be \_\_\_\_\_.

(d) The material that allows electric current to pass through it is called a \_\_\_\_\_.

(e) The \_\_\_\_\_ is the part of a bulb that glows when electricity passes through it.

(d) conductor

(e) filament

TRUE OR FALSE

Question 1.

Put a (✓) with green sketch pen against the statements that are correct and a (X) with red sketch pen against incorrect statements.

(a) To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell.

(b) It is good to represent electric components by their symbols while making a circuit diagram.

(c) Electric current passing through any conductor produces light.

(d) Electric current can flow through insulators.

(e) A switch is used to open or close an electric circuit.

(f) In a closed circuit, the electric current flows from the negative terminal to the positive terminal of the battery.

(g) The filament in a bulb is usually made of copper.

Question 2.

Which of the following precautions are mentioned correctly that need to be taken while using electric gadgets / appliances/ circuits? Mark them with a red sketch pen.

(a) If the bulb in a torch does not glow, even with new batteries, the filament might be okay.

(b) When you switch ON a light and it glows instantly, it shows the circuit is closed and a filament is working.

(c) An electric cell has two terminals: one positive and one negative.

(d) Plastic and rubber are good conductors of electricity.

(e) A bulb will glow only when the circuit is closed.

**Match the columns and choose the correct options given below.**

Column I          Column II

(a) Conductor    (i) Used to break or complete a circuit

(b) Insulator    (ii) Material that allows an electric current to pass through

(c) Switch        (iii) A device that lights up when electricity flows

(d) Bulb (iv) A source of electric current

(e) Cell (v) Material that does not allow electric current to pass through

Match the columns and choose the correct options given below.

Column I          Column II

(a) Electric circuit        (i) A diagram that uses symbols to show electrical components

(b) Electric cell    (ii) Allows current to flow only in a complete path

(c) Circuit diagram        (iii) Source of electricity in small devices

(d) Battery        (iv) Combination of two or more cells

(e) Open circuit (v) A break in the path of an electric current

Column I          Column II

(a) Electric circuit        (ii) Allows current to flow only in a complete path

(b) Electric cell    (iii) Source of electricity in small devices

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(d) Battery        (iv) Combination of two or more cells

(e) Open circuit (v) A break in the path of an electric current

**Assertion-Reason Questions**

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

(a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.

(b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

(c) The assertion is true but the Reason is false.

(d) The assertion is false but the Reason is true.

Question 1.

Assertion: A bulb glows only when the circuit is closed.

Reason: A closed circuit allows electric current to flow through the bulb.

Question 2.

Assertion: Plastic is a good conductor of electricity.

Reason: A Conductor allows the easy movement of electric charges.

Question 3.

Assertion: A battery is made by combining multiple cells.

Reason: A single cell cannot provide enough voltage in some circuits.

Question 4.

Assertion: A switch allows or stops the flow of electric current.

Reason: It acts as a conductor in an open circuit

Question 5.

Assertion: An LED lights up only when electricity flows in one direction.

Reason: LED is a special type of device that allows electricity to pass only in one direction.

Case-Based Questions

Raveena is trying to light a bulb using a simple circuit. She has a few cells, a switch, a bulb, and some wires. However, when she connects everything, the bulb does not light up. She then checked for the connections, and if they are properly tight, but the bulb still doesn't glow.

Question 1.

What could be the possible reason(s) of not glowing up of bulb?

(i) The cells are not connected properly.

(ii) The switch is ON.

(iii) The bulb is fused.

(iv) The switch is OFF.

(a) (i) and (iii)

- (b) (i), (iii), and (iv)
- (c) Only (iii)
- (d) All of the above
- (d) Both (a) and (b)

## **CHAPTER METALS AND NON METALS**

Objective Type Questions

Multiple Choice Questions

Question 1.

Which of the following is a typical feature of metals?

- (a) They are brittle.
- (b) They are malleable.
- (c) They are poor conductors of heat.
- (d) They are soft.

Question 2.

Which of the following is the correct statement about the behaviour of metals?

- (a) They catch fire easily.
- (b) They are poor conductors of heat.
- (c) They produce a ringing sound when struck.
- (d) They always float in water

Question 3.

Which of the following is a good conductor of electricity?

- (a) Sulphur
- (b) Wood
- (c) Copper
- (d) Charcoal

Question 4.

Consider the following statements about the properties of metals and non-metals. Select the correct ones.

- I. Metals are malleable and ductile.

II. Non-metals are good conductors of heat.

III. Non-metals are brittle.

IV. Metals are generally shiny.

Choose the correct option:

(a) I, II, and III

(b) II and III

(c) I, III, and IV

(d) II, III, and IV

Question 5.

Select the incorrect match pair regarding metals and non-metals.

(a) Iron – Metal

(b) Oxygen – Non-metal

(c) Coal – Metal

(d) Sulphur – Non-metal

question 6.

Which of the following is not a property of non-metals?

(a) They are brittle.

(b) They are poor conductors of electricity.

(c) They are ductile.

(d) They are not lustrous.

Question 7.

Which of the following is an example of a non-metal?

(a) Aluminium

(b) Sulphur

(c) Zinc

(d) Copper

Question 8.

What happens when a metal reacts with oxygen?

(a) A salt is formed

- (b) A non-metal is formed
- (c) A metal oxide is formed
- (d) A base is formed

Question 9.

Which of the following substances is most likely to rust in the presence of air and moisture?

- (a) Copper
- (b) Iron
- (c) Aluminium
- (d) Sulphur

Question 10.

Choose the correct option that represents the rusting of iron.

- (a) Iron + Oxygen + Water  $\rightarrow$  Rust
- (b) Iron + Heat  $\rightarrow$  Iron oxide
- (c) Iron + Acid  $\rightarrow$  Rust
- (d) Iron + Sunlight  $\rightarrow$  Brown flakes

Question 11.

Reena kept three samples in bottles: one with dry air, one with water and an oil layer, and one with air and water. Rusting occurred only in the third bottle. What caused the rusting?

- (a) Air only
- (b) Water only
- (c) Both air and water
- (d) Heat and sunlight

Question 12.

Which substance can be added to prevent the rusting of iron?

- (a) Baking soda
- (b) Oil or paint coating
- (c) Salt
- (d) Vinegar

Question 13.

What happens when a magnesium ribbon burns in air?

- (a) It forms a brown powder.
- (b) It forms a white ash of magnesium oxide.
- (c) It forms a blue flame.
- (d) It forms a black soot.

Answer:

- (b) It forms a white ash of magnesium oxide.

Question 14.

The figure shows the results of magnesium oxide and sulfur dioxide solutions with blue litmus papers. Beaker A contains magnesium oxide solution, and Beaker B contains sulphur dioxide solution. What are the respective natures of these oxides?

The World of Metals and Non metals Class 7 Worksheet with Answers Science Chapter 4 1

- (a) Acidic, Acidic
- (b) Basic, Acidic
- (c) Basic, Basic
- (d) Neutral, Acidic

Question 15.

Which of the following is an example of a use of non-metal in daily life?

- (a) Iron nail
- (b) Aluminium foil
- (c) Oxygen used for breathing
- (d) Copper wires

Fill in the Blanks

Question 1.

Fill in the blanks by choosing the appropriate words from the box given below.

- (a) The property of metals to be drawn into wires is called \_\_\_\_\_
- (b) Metals like copper produce a ringing sound when struck and are said to be \_\_\_\_\_

- (c) Non-metals are generally \_\_\_\_\_ and do not produce sound when struck.
- (d) Metals are good conductors of \_\_\_\_\_ and \_\_\_\_\_
- (e) Aluminium is widely used in electrical wiring because it is a good conductor and \_\_\_\_\_ in weight.
- (f) Iron gets covered with a brown flaky substance called \_\_\_\_\_ when exposed to air and moisture.
- (g) Coating iron objects with paint or oil helps to prevent \_\_\_\_\_
- (h) When magnesium burns in air, it forms a white ash called \_\_\_\_\_
- (i) Sulphur dioxide dissolves in water to form an \_\_\_\_\_ solution.
- (j) Non-metals like oxygen are essential for the process of \_\_\_\_\_

True/False

Question 1.

Write 'T' for True or 'F' for False for the following statements.

- (a) Metals are generally hard and have a shiny appearance.
- (b) Non-metals can be drawn into wires easily.
- (c) Copper and aluminium are commonly used in making electrical wires.
- (d) Rusting of iron requires only air and no moisture.
- (e) Sulphur dioxide forms a basic solution when dissolved in water.
- (f) Non-metals like chlorine and iodine have important uses in our daily life.

## CHAPTER – PHYSICAL AND CHEMICAL CHANGES

### Multiple Choice Questions

Question 1.

Which of the following are physical changes?

- I. Melting of ice
- II. Rusting of iron
- III. Burning of iron filings
- IV. Drawing a wire of iron metal

Choose the correct answer from the options given below.

- (a) I and II

(b) II and III

(c) I and IV

(d) II and IV

Question 2.

A chemical change may involve

(a) Change in colour only

(b) Change in temperature only

(c) Evolution of gas only

(d) Any or all of these

Question 3.

Which of the following is/are true when milk changes into curd?

I. Its state is changed from liquid to semi-solid.

II. It changes colour.

III. It changes taste.

IV. The change cannot be reversed.

Choose the correct answer from the options given below.

(a) I and II are correct

(b) II and III are correct

(c) I, III, and IV are correct

(d) I and IV are correct

Question 5.

What is formed when carbon dioxide is passed through lime water?

(a) Calcium carbonate

(b) Sodium hydrogen carbonate

(c) Calcium oxide

(d) Calcium hydroxide

Question 6.

What are the essential conditions for rusting to take place?

I. Presence of water or moisture

II. High temperature

III. Presence of oxygen

IV. Low temperature

(a) Only I

(b) Both I and III

(c) Both I and II

(d) Both II and IV

**Fill in the Blanks**

Question 1.

A few terms related to physical and chemical changes are given in the box below. Fill in the blanks by choosing appropriate words.

(a) A change in which the shape, size, or state of a substance may change but no new substance is formed is called a \_\_\_\_\_ change.

(b) The melting of wax in a candle flame is an example of a \_\_\_\_\_ change.

(c) A change in which one or more new substances are formed is known as a \_\_\_\_\_ change.

Answer:

(d) Mixing baking soda with vinegar produces carbon dioxide gas; this is an example of a \_\_\_\_\_ change.

(e) \_\_\_\_\_ and \_\_\_\_\_ are both needed for rusting to occur.

(f) The chemical reaction in which a substance reacts with oxygen and gives off heat and Light is called \_\_\_\_\_

(g) \_\_\_\_\_ substances are those that catch fire easily.

(h) For combustion to occur, three things are needed: fuel, \_\_\_\_\_, and heat.

(i) Fireflies produce light using a process called \_\_\_\_\_

(j) \_\_\_\_\_ is the slow breaking down of rocks due to natural factors.

(k) \_\_\_\_\_ is the process in which sediments are moved from one place to another.

**True/False**

Question 1.

Sheena has written some important points to remember from the chapter-physical and chemical changes but she did not revise the chapter properly and made some mistakes while writing the points. Help her identify the incorrect points and rewrite them in their corrected form.

- (a) In a physical change, there is the formation of a new substance.
- (b) Lime water turning red is the test for carbon dioxide gas.
- (c) If the content of moisture in the air is high, rusting becomes faster.
- (d) Magnesium ribbon burns with a blue light.
- e) Wood and paper are combustible substances.
- (f) Bioluminescence in fireflies is a physical change.
- (g) Oxygen is essential for combustion.
- (h) Paper can even burn without fire.
- (i) Cutting of paper is a chemical change as it is irreversible.
- (j) The melting of wax is an example of a reversible change.
- (k) Weathering of rocks only involves physical changes.

Answer:

- (l) Erosion can be caused by flowing water and wind.

**Match the following.**

Question 1.

Match the substances given in Column I with their chemical formula given in Column II.

Column I              Column II

- A. Baking Soda    (i) Calcium hydroxide
- B. Rust    (ii) Iron oxide
- C. Lime water    (iii) Sodium hydrogen carbonate
- D. Milkiness in lime water              (iv) Calcium carbonate

Question 2.

Match the changes given in Column A with examples given in Column B.

Column A              Column B

- (i) Reversible change    (a) Cooking food
- (ii) Undesirable change    (b) Breakdown of rocks
- (iii) Desirable change    (c) Melting of wax
- (iv) Weathering    (d) Rusting
- (v) Corrosion    (e) Food spoilage

### Assertion-Reason Questions

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

#### Question 1.

Assertion: Breaking a glass is a physical change.

Reason: When glass breaks, its chemical composition is changed, forming new compounds.

#### Question 2.

Assertion: Rusting of iron is a reversible change.

Reason: Greasing and painting are the ways to prevent rusting.

#### Question 3.

Assertion: Combustion requires oxygen.

Reason: Oxygen is the only gas present in the air.

#### Question 4.

Assertion: Melting of wax is a physical change.

Reason: No new substance is formed during melting.

#### Question 5.

Assertion: Weathering is useful for soil formation.

Reason: It breaks down rocks into smaller particles.

### Case-Based Questions

Based on the information given below, choose the correct options:

Anu is baking a cake. She mixes flour, sugar, eggs, and butter, and then bakes the mixture in the oven. After some time, the batter turns into a fluffy cake. Anu wonders how a new substance is formed from the various ingredients.

#### Question 1.

Which of the following statements best describes the change that occurs when Anu bakes the cake?

- (a) It is a physical change because the cake can be turned back into the original ingredients.

- (b) It is a chemical change because new substances with different properties are formed.
- (c) It is a physical change because the ingredients are mixed.
- (d) It is both a physical and chemical change because mixing and baking occur.

.Question 2.

Why is baking a cake considered a chemical change?

- (a) The colour of the cake changes.
- (b) The pleasant smell is formed.
- (c) The ingredients undergo a chemical reaction to form a new substance.
- (d) All of the above.

Question 3.

While baking a cake, which ingredient serves the same purpose as eggs?

- (a) Sugar
- (b) Baking soda
- (c) Lemon juice
- (d) Salt

## **CHAPTER – ADOLESCENCE**

Question 1.

During adolescence, which physical change is commonly observed in boys?

- (a) Shoulders become narrower
- (b) Facial hair begins to develop
- (c) Chest size decreases
- (d) Weight loss occurs

Question 2.

Which of the following is typically seen in girls as they go through adolescence?

- (a) Facial hair growth
- (b) Shoulders become broader
- (c) Breasts start to develop
- (d) Height starts to decrease
- (c) Breasts start to develop

Question 3.

The period of adolescence marks changes in

- I. emotions
- II. facial expression
- III. mentality
- IV. Biological features

Choose the correct option:

- (a) Both I and II
- (b) Both II and III
- (c) Both III and IV
- (d) I, III, and IV

Question 4.

The most conspicuous visible change that occurs in boys during puberty is

- (a) development of the voice box
- (b) increase in weight
- (c) production of sperm
- (d) increased sweating

Question 6.

What is often responsible for the appearance of pimples during adolescence?

- (a) Excessive washing of the face
- (b) A rise in oily secretions leading to clogged pores
- (c) Not getting enough sleep
- (d) Dehydration

Question 7.

Reproductive age in women starts when their

- (a) menstruation starts
- (b) body weight increases
- (c) Breasts start developing
- (d) height increases

Question 8.

Adolescents should be careful about what they eat, because

- (a) A proper diet develops their brains
- (b) A proper diet is needed for the rapid growth taking place in the body
- (c) Adolescents feel hungry all the time
- (d) Taste buds are well-developed in teenagers

Question 9.

The right meal for adolescents consists of

- (a) chips, noodles, coke
- (b) chapati, dal, vegetables
- (c) rice, noodles, and a burger
- (d) vegetable cutlets, chips, and lemon drink

Question 10.

Which of the following is a key feature of the Menstrual Hygiene Scheme (MHS) introduced by the Government of India?

- (a) Free distribution of sanitary pads only in urban areas
- (b) Awareness programs to educate girls about menstrual hygiene and health
- (c) Providing sanitary pads only to women above 30 years of age
- (d) Restricting sanitary pad distribution to government schools only

Question 1.

Fill in the blanks by choosing the correct word in each of the following sentences.

- (a) The period of life when the body attains reproductive maturity is called \_\_\_\_\_
- (b) Boys often develop facial hair, which later grows into a \_\_\_\_\_ and a beard as they move towards adulthood.
- (c) Acne occurs due to an increase in \_\_\_\_\_ from the skin.
- (d) Boys and girls can be distinguished from each other based on \_\_\_\_\_
- (e) Puberty is the stage when an adolescent's body changes to become capable of \_\_\_\_\_

Question 2.

Complete the paragraph by rearranging the words in the blanks.

Adolescence is the stage of rapid (a) \_\_\_\_\_ (rowght) and development. Therefore, an adolescent has to take a (b) \_\_\_\_\_ (declanba) diet. Meals should include (c) \_\_\_\_\_ (rptoines), carbohydrates, fats, and (d) \_\_\_\_\_ (tavminsi). (e) \_\_\_\_\_ (klmi) is a balanced food in itself. Personal (f) \_\_\_\_\_ (hgieyen) is also important to maintain good reproductive health.

### **True/False**

Question 1.

Write 'T' for true or 'F' for false for the following statements.

- (a) Girls have high high-pitched voice, whereas boys have a deep voice.
- (b) Adolescence begins around the ages of 10 to 13 years.
- (c) Secondary sexual characteristics include features like facial hair in boys and breast development in girls.
- (d) The menstrual cycle usually begins after the age of 25.
- (e) Substance abuse only affects physical health and has no impact on mental well-being.

Question 2.

Write 'Yes' for the correct statement and 'No' for the incorrect statement.

- (a) Adolescents experience a sudden increase in height.
- (b) The development of secondary sexual characters is the same for boys and girls.
- (c) Both boys and girls go through emotional changes during adolescence.
- (d) Adolescents should maintain personal hygiene, especially during menstruation.
- (e) It is not healthy for adolescents to consume alcohol and smoke beedis or cigarettes.

Match the Following

Question 1.

Match Column I with Column II.

Column I

Column II

- (a) Larynx (Voice box)    (i) Responsible for producing sound and controlling the pitch of the voice.
- (b) Acne and pimples    (ii) Result from increased oily secretion during puberty.

(c) Menstrual cycle      (iii) Aims to improve the overall health of adolescents, including menstrual health and hygiene.

(d) RKSK      (iv) Marks the onset of puberty in girls.

(e) Cigarette      (v) Known to be addictive and harmful to health.

#### Assertion-Reason Questions

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

(a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.

(b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

(c) The assertion is true, but the Reason is false.

(d) The assertion is false, but the Reason is true.

#### Question 1.

Assertion: During puberty, boys develop broader shoulders and wider chests.

Reason: In girls, the region below the waist, especially the hips, becomes wider.

#### Question 2.

Assertion: Adolescents often develop acne during puberty.

Reason: Acne is caused by bacterial infection due to poor hygiene.

#### Question 3.

Assertion: During adolescence, both boys and girls do not experience growth spurts in height.

Reason: A rapid growth of bones and muscles occurs during puberty.

#### Question 4.

Assertion: Puberty brings about emotional changes that make adolescents more self-conscious.

Reason: Hormonal changes during puberty can lead to mood swings, causing emotional fluctuations.

#### Question 5.

Assertion: Peer pressure can lead to risky behaviour.

Reason: Adolescents are often influenced by their peers to try harmful substances like cigarettes and alcohol.

#### Case-Based Questions

Read the passage carefully and answer the questions that follow.

Raman is a 15-year-old student of grade 8. Over the past 2 years, he has experienced various changes that have majorly impacted his daily life. Raman has observed changes in his voice, height and appearance of pimples. Alongside this, Raman also experienced mood swings and heightened emotions. His social life has also changed. He found himself more independent now.

Question 1.

The changes Raman is experiencing are mostly associated with which stage of life?

- (a) In fancy
- (b) Childhood
- (c) Adolescence
- (d) Adulthood

Question 2.

What physical change can make Raman feel self-conscious?

- (a) Voice deepening
- (b) Appearance of acne and pimples
- (c) Growth in height
- (d) All of these

Question 3.

To regulate his mood swings, what method can be adopted by Raman?

- (a) Ignoring his emotions
- (b) Sleeping more
- (c) Playing more
- (d) Mindfulness and deep breathing

# **PM SHRI Kendriya Vidyalaya Ratlam**

## **Class VII A & B - Social Science Homework**

Students are required to complete the following homework based on the syllabus topics:

- 1 Geographical Diversity of India – Prepare a chart/map showing major physical features of India and write a short note on each.
- 2 Understanding the Weather – Record the daily temperature, rainfall, and wind direction of your city for 7 days and write your observations.
- 3 New Beginnings: Cities & States – Write a short essay on the growth of any one ancient city/state of India.
- 4 The Rise of Empire – Make a timeline chart of major Indian empires and their rulers.
- 5 From the Rulers to Ruled: Types of Governments – Prepare a comparative table of different forms of government with examples.

*Note: Submit the homework in your Social Science notebook with neat and clean presentation.*

**कक्षा सातवीं**  
**शरदकालीन अवकाश गृहकार्य**  
**विषय हिन्दी**

प्रश्न 1 "तीन बुद्धिमान्" कहानी का सारांश लिखिए।

प्रश्न 2 "नहीं होना बीमार " कहानी को अपने शब्दों में लिखिए।

प्रश्न 3 " मां कह एक कहानी " में क्या कहा गया है? इससे मिलने वाली शिक्षा को भी लिखिए

प्रश्न 4 " पानी रे पानी " पाठ के आधार पर मनुष्य जीवन में पानी का महत्त्व बताइए।

प्रश्न 5 निम्नलिखित में से किसी एक विषय पर एक अनुच्छेद लिखिए

1 स्वच्छता का महत्त्व

2 दीपावली

प्रश्न 6 तीन दिन के अवकाश हेतु एक आवेदन पत्र लिखिए।

अथवा

अपने मित्र को एक पत्र लिखकर बताइए कि आपकी परीक्षा की तैयारी कैसी चल रही है?

# शरदकालीन अवकाश गृहकार्य 2025

## कक्षा - 7 संस्कृत

1. क्रीडामः वयं श्लोक अन्त्याक्षरी पाठ के सुभाषितो का भावार्थ मातृभाषा मे लिखिए ?
2. मनुष्य के कीन्ही पांच मानवीय गुणो की विशेषता पर 5-5 वाक्य लिखिए ?
3. पञ्च महापुरुषानां जीवने विषये पञ्च -पञ्च वाक्यानि लिखत ? / पांच महापुरुषो के जीवन से संबन्धित 5-5 वाक्य लिखिए ?
4. विद्या व कवि शब्दो के शब्दरूप लिखे व याद करे

**PM SHRI KENDRIYA VIDYALAYA RATLAM**  
**AUTUMN BREAK HW**  
**MODEL PAPER**  
**SUB: ENGLISH CLASS VII**

**NOTE:-**

- **QUESTION PAPER CARRIES- THREE SECTIONS -A, B & C.**
- **TOTAL- 1 TO 18 QUESTIONS.**
- **SECTION A CARRIES- 12 MARKS ( 2-COMPREHENSIONS) QUESTION NO. 1 & 2**
- **SECTION B CARRIES-20 MARKS (8-GRAMMAR & 3-WRITING)**
- **QUESTION NO. 3 TO 10. GRAMMAR & QUESTION NO. 11 TO 13 WRITING.**
- **SECTION C CARRIES- 28 MARKS (PROSE AND POETRY FROM TEXT BOOK -8 MCQ, 4 (VSA) VERY SHORT ANSWERS, 4 (SA) SHORT ANSWERS & 2 (LA) LONG ANSWERS. QUESTION NO. 14 TO 18.**

**SECTION –A ( READING 2 X 6 = 12 MARKS)**

**Q1. Read the following passage and answer the following questions - (6 MARKS)**

The sun was slowly sinking beneath the horizon, painting the sky in brilliant shades of orange, pink, and gold. Its warm, golden light spilled across the surface of the ocean, making the waves shimmer as if they were covered in molten sunlight. Each crest sparkled for a moment before gently tumbling onto the shore in a foamy embrace. On the beach, a group of children played with uncontrollable energy, their laughter ringing out like music in the evening air. Barefoot and carefree, they dashed along the shoreline, stopping occasionally to add turrets and moats to the sandcastles they had proudly constructed. Their voices rose and fell in playful shouts, harmonizing with the rhythmic crash of the waves. The sea breeze carried the scent of salt and adventure, tousling their hair and rustling the palm trees that lined the edge of the beach. As the day faded into twilight, the peaceful melody of the ocean seemed to echo the joy of the moment — a perfect union of nature's calm and childhood wonder

- 1. What was the scene described in the passage?**
  - a) A sunset over a mountain**
  - b) A sunrise over the ocean**
  - c) A sunset over the ocean**
  - d) A cloudy day on the beach**
- 2. What were the children doing on the beach?**
  - a) Swimming**
  - b) Building sandcastles**

**c) Collecting seashells**

**d) Reading books**

**3. What sound was created by the waves?**

**a) A loud noise**

**b) A soothing melody**

**c) A scary sound**

**d) A silent atmosphere**

**4. Complete the line**

**The sound of the waves crashing against the .....created a soothing melody.**

**5. What activity were the children engaged in, and what does it reveal about their mood?**

**6. Write opposite of the word 'light'**

**Q2. Read the following passage and answer the following questions - (6 MARKS)**

**The city of Venice, often described as one of the most enchanting places in the world, is renowned for its intricate network of winding canals and breath-taking architecture that seems to rise magically from the water. Built atop more than 100 small islands nestled within the marshy Venetian Lagoon along the edge of the Adriatic Sea, Venice is a marvel of human ingenuity and resilience. Instead of roads, the city's main thoroughfares are canals, the most famous being the Grand Canal, which snakes through the heart of the city like a liquid avenue lined with centuries-old palazzi. Graceful gondolas and sleek vaporettos glide silently across the waterways, offering visitors a timeless perspective of the city's charm. The streets—narrow alleyways, hidden courtyards, and arched bridges—are flanked by magnificent buildings that speak to the city's rich and complex history. From the intricate mosaics of Byzantine churches to the pointed arches and delicate tracery of Gothic palaces, and the harmonious and Renaissance styles. Visitors from all over the world come to admire the city's beauty and rich history.**

**1. What is the city of Venice famous for?**

**a) Its beautiful mountains**

**b) Its stunning architecture and canals**

**c) Its vast deserts**

**d) Its ancient ruins**

**2. Where is the city of Venice built?**

**a) On a single large island**

**b) On more than 100 small islands**

**c) On the mainland**

**d) On a peninsula**

**3. What style of architecture is NOT mentioned in the passage?**

a) Byzantine

b) Gothic

c) Renaissance

d) Modern

4. Visitors from all over the world come to admire the city's.....

5. Where is the city of Venice located?

6. Describe the architecture of Venice.

**SECTION –B ( WRITING AND GRAMMAR = 20 MARKS)**

**GRAMMAR (8X1= 8 MARKS)**

Q.3 The classroom grew .....as the students noticed the teacher carrying the answer papers.

i) noisy      ii) silent      iii) angry      iv) indifferent

Q.4 The cat jumped..... the table

i) in              ii) on              iii) at              iv) of

Q.5 Choose the correct option to complete the sentence

He ..... reading a story book.

i) are              ii) is              iii) were              iv) will

Q.6 Choose antonym of despair

i) unhappiness      ii) happiness      iii) laziness      iv) cleverness

Q.7 Choose the correct option from the words given in the brackets.

i) A pair of sunglasses \_\_\_\_\_ (is/are) essential when travelling to sunny destinations.

ii) Either the tour guide or the tourists \_\_\_\_\_ (has/have) to arrive first at the meeting point.

Q.8 use correct form of verb

Radhika.....everyday ( swims/ swim)

Q.9 Match the compound words and make two words-

|        |       |
|--------|-------|
| Honey  | fly   |
| Butter | bee   |
|        | light |

i).....

ii).....

Q.10 Mention the sentence has a metaphor or simile in it.

He ran as fast as a cheetah.....

**WRITING ( 3 X 4 =12 MARKS)**

Q.11 Write a sick leave of three days to the principal of your school. (4 MARKS)

OR

Write a half day leave to the principal mentioning a reason for the same.

**Q.12 Write a paragraph on any one topic- (4 MARKS)**

- i) Importance of trees
- ii) Our Environment
- iii) Visit to a zoo
- iv) My favourite game

**Q.13 Write a notice in four columns, you found a pen in a playground of your school. You are Riya / Rahul, class VII B of K V Rajouri . ( 4 MARKS)**

**OR**

**Write a notice in four columns, you have lost your tiffin box in school playground. You are Haritima / Hardik, class VII B of P M SHRI Kendriya Vidyalaya Palampur.**

**SECTION –C (LITERATURE)(28 MARKS)**

**EXTRACT-I PROSE**

**Q14. Read the given extract and answer- (4 MARKS)**

"The river flowed gently, its waters whispering secrets to the trees. A young girl sat on the riverbank, listening to the river's tales. The river spoke of ancient civilizations, of love and loss, of joy and sorrow. The girl's eyes widened as she listened, her heart filled with wonder."

**1. What was the river doing in the passage?**

- i) Flowing rapidly
- ii) Whispering secrets
- iii) Remaining silent
- iv) Flooding the banks

**2. Who was listening to the river's tales?**

- i) A young boy
- ii) A young girl
- iii) An old man
- iv) A group of people

**3. What did the river's tales include?**

- i) Stories of adventure
- ii) Accounts of ancient civilizations
- iii) Descriptions of nature
- iv) None of the above

**4. What was the girl's reaction to the river's tales?**

- i) her heart filled with wonder
- ii) her heart filled with anger
- iii) her heart filled with sadness
- iv) her heart filled with thrill

**EXTRACT-II (POETRY)**

**Q15. Read the given stanza and answer- (4 MARKS)**

"A funny man with a heart so bright,  
Told jokes that made us laugh with delight.  
His humor was contagious, it spread like fire,  
Leaving smiles on every face, a joyful desire."

**1. What was the central theme of the poem?**

- a) The importance of seriousness
- c) The beauty of nature

- b) The joy of humor and laughter
- d) The challenges of life

2. How did the funny man's jokes affect the audience?

- a) They made them cry
- c) They made them angry
- b) They made them laugh with delight
- d) They made them indifferent

3. What was the effect of the funny man's humor?

- a) It was limited to a few people
- c) It had no impact
- b) It spread like fire
- d) It was negative

4. What did the funny man's jokes do to the audience?

**VERY SHORT QUESTION ANSWERS (4X1 = 4 MARKS)**

(Write answer in some words or a line near about 10 words)

**Q.16 Answer any four (4 MARKS)**

i) When the river suggests that Jahnavi should “slip along”, it means that she should move

- a) quickly
- b) casually
- c) quietly
- d) confidently

ii) What is the name of the king in the poem- Try Again.

iii) Why does the author believe that the sense of sight is the most wonderful?

iv) What is the significance of imagining the loss of a sense, according to the author?

v) Who came to meet Mrs. Shaw ?

vi) How can we say that Polynesia was a good trainer of animal language?

**SHORT QUESTION ANSWERS- (4X 2= 8 MARKS)**

(Write answer in two line near about 20-30 words)

**Q.17 Answer any four- ( 8 MARKS)**

i) Name the four characters of the play- Say The Right Thing.

ii) The poet in the poem –Try Again describes every action of the spider in great detail.

What does this tell us about his attitude towards the spider?

iii) How does the river know so much about Jahnavi?

iv) How does the conversation between Jahnavi and the River make the story more appealing?

- v) How might the author's opinion on making the most of our senses guide us to be kinder towards people with special abilities?
- vi) Which character trait of the funny man was most appealing to you? Why?

**LONG QUESTION ANSWERS- (2X 4= 8) MARKS)**

*(Write answer in 40-50 words)*

**Q.18 Answer any two- ( 8 MARKS)**

- i) Do you think Doctor Dolittle would be famous as an animal doctor? If yes, why? If not, why not?
- ii) The author says that you need eyes to be able to 'see' the true self of a person. Therefore, she refers to the eye as 'window of the soul'. How is the narrator able to understand the feelings of a person?
- iii) The poem- Try Again teaches us that failure are stepping stones to success. Explain.

## CLASS VII AUTUMN BREAK HOLIDAY HOME WORK

### Class 7 Science

#### Chapter 2 Exploring Substances Acidic Basic and Neutral Worksheet

#### A. Objective Type Questions

##### Multiple Choice Questions

##### Question 1.

Consider the following statements about litmus paper and select the correct ones.

- I. Blue litmus paper turns red in acidic solutions.
- II. Red litmus paper turns blue in basic solutions.
- III. Litmus paper is made from algae.
- IV. Litmus is used as an acid-base indicator.

Choose the correct option.

- (a) I, II, and IV
- (b) II and III
- (c) I, III, and IV
- (d) II, III, and IV

2. Which of the following is a feature of acidic substances?

- (a) Turns red litmus paper blue
- (b) Turns blue litmus paper red
- (c) Feels slippery
- (d) Has a bitter taste

3. Which of the following is not a property of bases?

- (a) They turn red litmus paper blue.
- (b) They have a bitter taste.
- (c) They feel slippery.
- (d) They are sour.

4. Which of the following is an example of a basic substance?

- (a) Vinegar

- (b) Lemon juice
- (c) Soap solution
- (d) Orange juice

5. Select the incorrect match pair regarding acids and bases.

- (a) Vinegar – Acid
- (b) Baking soda – Base
- (c) Lemon juice – Base
- (d) Soap solution – Base

**Fill in the blanks by choosing the appropriate words from the box given below.**

Basic, acidic, formic, neutralization, lichens, tomato, lemon, bitter, slippery

- (a) Litmus is obtained from \_\_\_\_\_ and is used as an acid-base indicator.
- (b) Substances that turn blue litmus paper red are \_\_\_\_\_ in nature.
- (c) Baking soda solution feels \_\_\_\_\_ when rubbed between fingers.
- (d) Turmeric paper can be used to test for \_\_\_\_\_ substances.
- (e) The process of mixing an acid with a base is known as \_\_\_\_\_
- (f) The fish population in a lake can decline due to \_\_\_\_\_ waste being released into the water.
- (g) To neutralise acidic factory waste in the lake, \_\_\_\_\_ substances should be added.

**Write 'T' for True or 'F' for False for the following statements.**

- (a) The taste of a substance can always be a reliable method to determine whether it is acidic or basic.
- (b) Lemon juice is an example of an acidic substance.
- (c) Baking soda solution turns red litmus paper blue, indicating it is acidic.
- (d) Extract of red rose gives red colour in basic solutions.
- (e) Turmeric turns red in basic solutions.
- (f) Turmeric paper can differentiate between acidic and neutral substances.

**Assertion-Reason Questions**

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

(c) The assertion is true, but the Reason is false.

(d) The assertion is false, but the Reason is true.

Question 1.

Assertion: Litmus is extracted from Lichens.

Reason: Blue litmus paper remains blue in distilled water.

Question 2.

Assertion: Solutions that do not change the colour of red or blue litmus are called basic solutions.

Reason: Acidic solutions turn blue litmus red.

Question 3.

Assertion: Coffee has a bitter taste.

Reason: Substances that are bitter and feel soapy to the touch are known as bases

Question 4.

Assertion: Red rose petals can be used as a natural acid-base indicator.

Reason: The red rose extract gives red colour in acidic solution and green colour in basic solution.

Question 5.

Assertion: Factory waste should be neutralised by adding basic substances.

Reason: When factory waste is released into water bodies, it affects aquatic life.

#### CASE BASED QUESTION

Anita was helping her mother in the kitchen. She accidentally spilled some turmeric paste on her apron. Later, she cleaned the stain using soap and water. To her surprise, the yellow turmeric stain turned red where the soap touched it. Anita got curious and decided to mix the turmeric paste with vinegar and baking soda.

Question 1.

What property of turmeric does this experiment show?

(a) It is used for cooking.

(b) It is yellow.

(c) It can act as a natural indicator.

(d) It dissolves in water.

Question 2.

What happens when baking soda is added to turmeric paste?

- (a) No change
- (b) It turns black
- (c) It turns red
- (d) It remains yellow

Question 3.

What will happen if vinegar is added to the turmeric paste?

- (a) It turns green
- (b) It turns black
- (c) It turns red
- (d) It remains yellow

## **CHAPTER- ELECTRICITY**

Multiple Choice Questions

Question 1.

What does an open circuit indicate?

- (a) The switch is ON and current is flowing through the circuit.
- (b) The switch is OFF, and no current is flowing through the circuit.
- (c) Switch is OFF and current is flowing through the circuit.
- (d) None of the above

Question 3.

Which of the following is a good conductor of electricity?

- (a) Human body
- (b) Wooden stick
- (c) Iron coin
- (d) Air

Question 4.

A circuit diagram shows a cell, a bulb, and wires, but no switch. What will happen when this circuit is connected?

- (a) The bulb will blink
- (b) The bulb will not glow

- (c) The bulb will glow continuously
- (d) The cell will turn off

Question 5.

A metal spoon is connected between two terminals of a battery with a bulb in the circuit. The bulb glows. What does this show?

- (a) The spoon is hot
- (b) The spoon is an insulator
- (c) The spoon is a conductor
- (d) The spoon stores charge

Question 6.

Identify the incorrect statement from the following.

- (a) When a circuit is in the off position, no current flows through it.
- (b) When an electric current flows through a wire, it behaves like a magnet.
- (c) Incandescent electric bulbs are better electricity-efficient lighting sources.
- (d) The positive terminal of one cell is always connected to the negative terminal of the next cell.

A teacher demonstrates a working circuit using an LED. She reverses the connections, and the LED stops glowing. Why?

- (a) LED works only with AC.
- (b) The LED gets damaged easily.
- (c) LED allows current in only one direction.
- (d) LED consumes too much energy.

Question 6.

Identify the incorrect statement from the following.

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- (b) When an electric current flows through a wire, it behaves like a magnet.
- (c) Incandescent electric bulbs are better electricity-efficient lighting sources.
- (d) The positive terminal of one cell is always connected to the negative terminal of the next cell.

Question 7.

Which of the following statements is true regarding the given circuit diagram?

- (a) The compass needle is showing deflection.
- (b) The electric bulb is glowing.
- (c) The potential of the battery is decreasing.
- (d) The circuit is open as the wire is broken

Question 8.

A teacher demonstrates a working circuit using an LED. She reverses the connections, and the LED stops glowing. Why?

- (a) LED works only with AC.
- (b) The LED gets damaged easily.
- (c) LED allows current in only one direction.
- (d) LED consumes too much energy.

Question 9.

Which of the following is not needed for a torch to work?

- (a) A bulb or LED
- (b) A switch
- (c) A fuse
- (d) A battery

Question 10.

A student connects an electric cell directly to a bulb using wires, but the bulb does not glow. Which of these is the most likely reason?

- (a) The wires are too short.
- (b) The cell is placed upside down.
- (c) The circuit is not complete.
- (d) The bulb is facing downward.

Question 11.

When you press the switch of a torch, the bulb glows. What does this action do inside the torch?

- (a) Change the battery.
- (b) Breaks the circuit.

(c) Completes the circuit and allows current to flow.

(d) Reduces the brightness of the bulb

#### Question 12

A student builds a circuit with a battery, switch, and a lamp. The lamp glows only when the switch is ON. What does this show about the role of the switch?

(a) It increases the power.

(b) It connects the cell and lamp permanently.

(c) It controls the flow of current by opening or closing the circuit.

(d) It makes the lamp brighter.

#### Question 13

In a circuit diagram, the symbol “| |” represents which component?

(a) Electric bulb

(b) Battery (combination of cells)

(c) Switch

(d) Wire

#### Question 14.

A student touches both terminals of a cell with her dry finger. What happens?

(a) She feels a shock.

(b) Current flows through her hand.

(c) No current flows.

(d) The cell gets damaged.

#### Question 15.

A circuit is shown with a lamp, a cell, a switch, and connecting wires. The bulb does not glow even when the switch is ON. What should the student check first?

(a) If the wires are colourful.

(b) If the cell is brand new. (c) If the lamp is getting hot. (d) If all connections are tight and complete

#### Fill in the Blanks

#### Question 1.

Fill in the blanks by choosing the appropriate words given with each sentence.

- (a) A continuous and closed path of electric current is called a \_\_\_\_\_.  
[conductor/circuit/insulator]
- (b) A device that is used to break or complete a circuit is called a \_\_\_\_\_. [cell/lamp/switch]
- (c) A bulb glows when current passes through its thin wire called \_\_\_\_\_. [filament/fuse/coil]
- (d) An \_\_\_\_\_ [LED/fuse/switch] glows even with a small current and is used in decorative lights.
- (e) The metal \_\_\_\_\_ [aluminium/iron/copper] is used in electric wires because it is a good conductor.

#### Question 2.

Complete the statements by using suitable words.

- (a) A device that opens or closes a circuit is called a \_\_\_\_\_.
- (b) In a circuit diagram, a battery is represented by a combination of \_\_\_\_\_ and \_\_\_\_\_ lines.
- (c) When the switch is in the 'off position, the electric circuit is said to be \_\_\_\_\_.
- (d) The material that allows electric current to pass through it is called a \_\_\_\_\_.
- (e) The \_\_\_\_\_ is the part of a bulb that glows when electricity passes through it.
- (d) conductor
- (e) filament

#### TRUE OR FALSE

#### Question 1.

Put a (✓) with green sketch pen against the statements that are correct and a (X) with red sketch pen against incorrect statements.

- (a) To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell.
- (b) It is good to represent electric components by their symbols while making a circuit diagram.
- (c) Electric current passing through any conductor produces light.
- (d) Electric current can flow through insulators.
- (e) A switch is used to open or close an electric circuit.
- (f) In a closed circuit, the electric current flows from the negative terminal to the positive terminal of the battery.
- (g) The filament in a bulb is usually made of copper.

Question 2.

Which of the following precautions are mentioned correctly that need to be taken while using electric gadgets / appliances/ circuits? Mark them with a red sketch pen.

- (a) If the bulb in a torch does not glow, even with new batteries, the filament might be okay.
- (b) When you switch ON a light and it glows instantly, it shows the circuit is closed and a filament is working.
- (c) An electric cell has two terminals: one positive and one negative.
- (d) Plastic and rubber are good conductors of electricity.
- (e) A bulb will glow only when the circuit is closed.

**Match the columns and choose the correct options given below.**

Column I

Column II

- (a) Conductor (i) Used to break or complete a circuit
- (b) Insulator (ii) Material that allows an electric current to pass through
- (c) Switch (iii) A device that lights up when electricity flows
- (d) Bulb (iv) A source of electric current
- (e) Cell (v) Material that does not allow electric current to pass through

Match the columns and choose the correct options given below.

Column I

Column II

- (a) Electric circuit (i) A diagram that uses symbols to show electrical components
- (b) Electric cell (ii) Allows current to flow only in a complete path
- (c) Circuit diagram (iii) Source of electricity in small devices
- (d) Battery (iv) Combination of two or more cells
- (e) Open circuit (v) A break in the path of an electric current

Column I

Column II

- (a) Electric circuit (ii) Allows current to flow only in a complete path
- (b) Electric cell (iii) Source of electricity in small devices
- (c) Circuit diagram (i) A diagram that uses symbols to show electrical components

- (d) Battery      (iv) Combination of two or more cells  
(e) Open circuit (v) A break in the path of an electric current

### **Assertion-Reason Questions**

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.  
(b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.  
(c) The assertion is true but the Reason is false.  
(d) The assertion is false but the Reason is true.

Question 1.

Assertion: A bulb glows only when the circuit is closed.

Reason: A closed circuit allows electric current to flow through the bulb.

Question 2.

Assertion: Plastic is a good conductor of electricity.

Reason: A Conductor allows the easy movement of electric charges.

Question 3.

Assertion: A battery is made by combining multiple cells.

Reason: A single cell cannot provide enough voltage in some circuits.

Question 4.

Assertion: A switch allows or stops the flow of electric current.

Reason: It acts as a conductor in an open circuit

Question 5.

Assertion: An LED lights up only when electricity flows in one direction.

Reason: LED is a special type of device that allows electricity to pass only in one direction.

### **Case-Based Questions**

Raveena is trying to light a bulb using a simple circuit. She has a few cells, a switch, a bulb, and some wires. However, when she connects everything, the bulb does not light up. She then checked for the connections, and if they are properly tight, but the bulb still doesn't glow.

Question 1.

What could be the possible reason(s) of not glowing up of bulb?

(i) The cells are not connected properly.

(ii) The switch is ON.

(iii) The bulb is fused.

(iv) The switch is OFF.

(a) (i) and (iii)

(b) (i), (iii), and (iv)

(c) Only (iii)

(d) All of the above

(d) Both (a) and (b)

### **CHAPTER METALS AND NON METALS**

Objective Type Questions

Multiple Choice Questions

Question 1.

Which of the following is a typical feature of metals?

(a) They are brittle.

(b) They are malleable.

(c) They are poor conductors of heat.

(d) They are soft.

Question 2.

Which of the following is the correct statement about the behaviour of metals?

(a) They catch fire easily.

(b) They are poor conductors of heat.

(c) They produce a ringing sound when struck.

(d) They always float in water

Question 3.

Which of the following is a good conductor of electricity?

(a) Sulphur

(b) Wood

(c) Copper

(d) Charcoal

Question 4.

Consider the following statements about the properties of metals and non-metals. Select the correct ones.

I. Metals are malleable and ductile.

II. Non-metals are good conductors of heat.

III. Non-metals are brittle.

IV. Metals are generally shiny.

Choose the correct option:

(a) I, II, and III

(b) II and III

(c) I, III, and IV

(d) II, III, and IV

Question 5.

Select the incorrect match pair regarding metals and non-metals.

(a) Iron – Metal

(b) Oxygen – Non-metal

(c) Coal – Metal

(d) Sulphur – Non-metal

question 6.

Which of the following is not a property of non-metals?

(a) They are brittle.

(b) They are poor conductors of electricity.

(c) They are ductile.

(d) They are not lustrous.

Question 7.

Which of the following is an example of a non-metal?

(a) Aluminium

(b) Sulphur

(c) Zinc

(d) Copper

Question 8.

What happens when a metal reacts with oxygen?

(a) A salt is formed

(b) A non-metal is formed

(c) A metal oxide is formed

(d) A base is formed

Question 9.

Which of the following substances is most likely to rust in the presence of air and moisture?

(a) Copper

(b) Iron

(c) Aluminium

(d) Sulphur

Question 10.

Choose the correct option that represents the rusting of iron.

(a) Iron + Oxygen + Water  $\rightarrow$  Rust

(b) Iron + Heat  $\rightarrow$  Iron oxide

(c) Iron + Acid  $\rightarrow$  Rust

(d) Iron + Sunlight  $\rightarrow$  Brown flakes

Question 11.

Reena kept three samples in bottles: one with dry air, one with water and an oil layer, and one with air and water. Rusting occurred only in the third bottle. What caused the rusting?

(a) Air only

(b) Water only

(c) Both air and water

(d) Heat and sunlight

Question 12.

Which substance can be added to prevent the rusting of iron?

- (a) Baking soda
- (b) Oil or paint coating
- (c) Salt
- (d) Vinegar

Question 13.

What happens when a magnesium ribbon burns in air?

- (a) It forms a brown powder.
- (b) It forms a white ash of magnesium oxide.
- (c) It forms a blue flame.
- (d) It forms a black soot.

Answer:

- (b) It forms a white ash of magnesium oxide.

Question 14.

The figure shows the results of magnesium oxide and sulfur dioxide solutions with blue litmus papers. Beaker A contains magnesium oxide solution, and Beaker B contains sulphur dioxide solution. What are the respective natures of these oxides?

The World of Metals and Non metals Class 7 Worksheet with Answers Science Chapter 4 1

- (a) Acidic, Acidic
- (b) Basic, Acidic
- (c) Basic, Basic
- (d) Neutral, Acidic

Question 15.

Which of the following is an example of a use of non-metal in daily life?

- (a) Iron nail
- (b) Aluminium foil
- (c) Oxygen used for breathing
- (d) Copper wires

### Fill in the Blanks

#### Question 1.

Fill in the blanks by choosing the appropriate words from the box given below.

- (a) The property of metals to be drawn into wires is called \_\_\_\_\_
- (b) Metals like copper produce a ringing sound when struck and are said to be \_\_\_\_\_
- (c) Non-metals are generally \_\_\_\_\_ and do not produce sound when struck.
- (d) Metals are good conductors of \_\_\_\_\_ and \_\_\_\_\_
- (e) Aluminium is widely used in electrical wiring because it is a good conductor and \_\_\_\_\_ in weight.
- (f) Iron gets covered with a brown flaky substance called \_\_\_\_\_ when exposed to air and moisture.
- (g) Coating iron objects with paint or oil helps to prevent \_\_\_\_\_
- (h) When magnesium burns in air, it forms a white ash called \_\_\_\_\_
- (i) Sulphur dioxide dissolves in water to form an \_\_\_\_\_ solution.
- (j) Non-metals like oxygen are essential for the process of \_\_\_\_\_

### True/False

#### Question 1.

Write 'T' for True or 'F' for False for the following statements.

- (a) Metals are generally hard and have a shiny appearance.
- (b) Non-metals can be drawn into wires easily.
- (c) Copper and aluminium are commonly used in making electrical wires.
- (d) Rusting of iron requires only air and no moisture.
- (e) Sulphur dioxide forms a basic solution when dissolved in water.
- (f) Non-metals like chlorine and iodine have important uses in our daily life.

## CHAPTER – PHYSICAL AND CHEMICAL CHANGES

### Multiple Choice Questions

#### Question 1.

Which of the following are physical changes?

- I. Melting of ice

II. Rusting of iron

III. Burning of iron filings

IV. Drawing a wire of iron metal

Choose the correct answer from the options given below.

(a) I and II

(b) II and III

(c) I and IV

(d) II and IV

Question 2.

A chemical change may involve

(a) Change in colour only

(b) Change in temperature only

(c) Evolution of gas only

(d) Any or all of these

Question 3.

Which of the following is/are true when milk changes into curd?

I. Its state is changed from liquid to semi-solid.

II. It changes colour.

III. It changes taste.

IV. The change cannot be reversed.

Choose the correct answer from the options given below.

(a) I and II are correct

(b) II and III are correct

(c) I, III, and IV are correct

(d) I and IV are correct

Question 5.

What is formed when carbon dioxide is passed through lime water?

(a) Calcium carbonate

(b) Sodium hydrogen carbonate

- (c) Calcium oxide
- (d) Calcium hydroxide

Question 6.

What are the essential conditions for rusting to take place?

- I. Presence of water or moisture
- II. High temperature
- III. Presence of oxygen
- IV. Low temperature

- (a) Only I
- (b) Both I and III
- (c) Both I and II
- (d) Both II and IV

**Fill in the Blanks**

Question 1.

A few terms related to physical and chemical changes are given in the box below. Fill in the blanks by choosing appropriate words.

- (a) A change in which the shape, size, or state of a substance may change but no new substance is formed is called a \_\_\_\_\_ change.
- (b) The melting of wax in a candle flame is an example of a \_\_\_\_\_ change.
- (c) A change in which one or more new substances are formed is known as a \_\_\_\_\_ change.

Answer:

- (d) Mixing baking soda with vinegar produces carbon dioxide gas; this is an example of a \_\_\_\_\_ change.
- (e) \_\_\_\_\_ and \_\_\_\_\_ are both needed for rusting to occur.
- (f) The chemical reaction in which a substance reacts with oxygen and gives off heat and Light is called \_\_\_\_\_
- (g) \_\_\_\_\_ substances are those that catch fire easily.
- (h) For combustion to occur, three things are needed: fuel, \_\_\_\_\_, and heat.
- (i) Fireflies produce light using a process called \_\_\_\_\_
- (j) \_\_\_\_\_ is the slow breaking down of rocks due to natural factors.

(k) \_\_\_\_\_ is the process in which sediments are moved from one place to another.

**True/False**

Question 1.

Sheena has written some important points to remember from the chapter-physical and chemical changes but she did not revise the chapter properly and made some mistakes while writing the points. Help her identify the incorrect points and rewrite them in their corrected form.

- (a) In a physical change, there is the formation of a new substance.
- (b) Lime water turning red is the test for carbon dioxide gas.
- (c) If the content of moisture in the air is high, rusting becomes faster.
- (d) Magnesium ribbon burns with a blue light.
- e) Wood and paper are combustible substances.
- (f) Bioluminescence in fireflies is a physical change.
- (g) Oxygen is essential for combustion.
- (h) Paper can even burn without fire.
- (i) Cutting of paper is a chemical change as it is irreversible.
- (j) The melting of wax is an example of a reversible change.
- (k) Weathering of rocks only involves physical changes.

Answer:

- (l) Erosion can be caused by flowing water and wind.

**Match the following.**

Question 1.

Match the substances given in Column I with their chemical formula given in Column II.

Column I

Column II

- |                            |                                 |
|----------------------------|---------------------------------|
| A. Baking Soda             | (i) Calcium hydroxide           |
| B. Rust                    | (ii) Iron oxide                 |
| C. Lime water              | (iii) Sodium hydrogen carbonate |
| D. Milkiness in lime water | (iv) Calcium carbonate          |

Question 2.

Match the changes given in Column A with examples given in Column B.

Column A      Column B

- |                         |                        |
|-------------------------|------------------------|
| (i) Reversible change   | (a) Cooking food       |
| (ii) Undesirable change | (b) Breakdown of rocks |
| (iii) Desirable change  | (c) Melting of wax     |
| (iv) Weathering         | (d) Rusting            |
| (v) Corrosion           | (e) Food spoilage      |

#### Assertion-Reason Questions

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

Question 1.

Assertion: Breaking a glass is a physical change.

Reason: When glass breaks, its chemical composition is changed, forming new compounds.

Question 2.

Assertion: Rusting of iron is a reversible change.

Reason: Greasing and painting are the ways to prevent rusting.

Question 3.

Assertion: Combustion requires oxygen.

Reason: Oxygen is the only gas present in the air.

Question 4.

Assertion: Melting of wax is a physical change.

Reason: No new substance is formed during melting.

Question 5.

Assertion: Weathering is useful for soil formation.

Reason: It breaks down rocks into smaller particles.

#### Case-Based Questions

Based on the information given below, choose the correct options:

Anu is baking a cake. She mixes flour, sugar, eggs, and butter, and then bakes the mixture in the oven. After some time, the batter turns into a fluffy cake. Anu wonders how a new substance is formed from the various ingredients.

Question 1.

Which of the following statements best describes the change that occurs when Anu bakes the cake?

- (a) It is a physical change because the cake can be turned back into the original ingredients.
- (b) It is a chemical change because new substances with different properties are formed.
- (c) It is a physical change because the ingredients are mixed.
- (d) It is both a physical and chemical change because mixing and baking occur.

.Question 2.

Why is baking a cake considered a chemical change?

- (a) The colour of the cake changes.
- (b) The pleasant smell is formed.
- (c) The ingredients undergo a chemical reaction to form a new substance.
- (d) All of the above.

Question 3.

While baking a cake, which ingredient serves the same purpose as eggs?

- (a) Sugar
- (b) Baking soda
- (c) Lemon juice
- (d) Salt

## **CHAPTER – ADOLESCENCE**

Question 1.

During adolescence, which physical change is commonly observed in boys?

- (a) Shoulders become narrower
- (b) Facial hair begins to develop
- (c) Chest size decreases
- (d) Weight loss occurs

Question 2.

Which of the following is typically seen in girls as they go through adolescence?

- (a) Facial hair growth
- (b) Shoulders become broader
- (c) Breasts start to develop
- (d) Height starts to decrease
- (c) Breasts start to develop

Question 3.

The period of adolescence marks changes in

- I. emotions
- II. facial expression
- III. mentality
- IV. Biological features

Choose the correct option:

- (a) Both I and II
- (b) Both II and III
- (c) Both III and IV
- (d) I, III, and IV

Question 4.

The most conspicuous visible change that occurs in boys during puberty is

- (a) development of the voice box
- (b) increase in weight
- (c) production of sperm
- (d) increased sweating

Question 6.

What is often responsible for the appearance of pimples during adolescence?

- (a) Excessive washing of the face
- (b) A rise in oily secretions leading to clogged pores
- (c) Not getting enough sleep

(d) Dehydration

Question 7.

Reproductive age in women starts when their

- (a) menstruation starts
- (b) body weight increases
- (c) Breasts start developing
- (d) height increases

Question 8.

Adolescents should be careful about what they eat, because

- (a) A proper diet develops their brains
- (b) A proper diet is needed for the rapid growth taking place in the body
- (c) Adolescents feel hungry all the time
- (d) Taste buds are well-developed in teenagers

Question 9.

The right meal for adolescents consists of

- (a) chips, noodles, coke
- (b) chapati, dal, vegetables
- (c) rice, noodles, and a burger
- (d) vegetable cutlets, chips, and lemon drink

Question 10.

Which of the following is a key feature of the Menstrual Hygiene Scheme (MHS) introduced by the Government of India?

- (a) Free distribution of sanitary pads only in urban areas
- (b) Awareness programs to educate girls about menstrual hygiene and health
- (c) Providing sanitary pads only to women above 30 years of age
- (d) Restricting sanitary pad distribution to government schools only

Question 1.

Fill in the blanks by choosing the correct word in each of the following sentences.

- (a) The period of life when the body attains reproductive maturity is called \_\_\_\_\_

(b) Boys often develop facial hair, which later grows into a \_\_\_\_\_ and a beard as they move towards adulthood.

(c) Acne occurs due to an increase in \_\_\_\_\_ from the skin.

(d) Boys and girls can be distinguished from each other based on \_\_\_\_\_

(e) Puberty is the stage when an adolescent's body changes to become capable of \_\_\_\_\_

#### Question 2.

Complete the paragraph by rearranging the words in the blanks.

Adolescence is the stage of rapid (a) \_\_\_\_\_ (rowght) and development. Therefore, an adolescent has to take a (b) \_\_\_\_\_ (declanba) diet. Meals should include (c) \_\_\_\_\_ (rptoines), carbohydrates, fats, and (d) \_\_\_\_\_ (tavminsi). (e) \_\_\_\_\_ (klmi) is a balanced food in itself. Personal (f) \_\_\_\_\_ (hgieyen) is also important to maintain good reproductive health.

#### **True/False**

#### Question 1.

Write 'T' for true or 'F' for false for the following statements.

(a) Girls have high high-pitched voice, whereas boys have a deep voice.

(b) Adolescence begins around the ages of 10 to 13 years.

(c) Secondary sexual characteristics include features like facial hair in boys and breast development in girls.

(d) The menstrual cycle usually begins after the age of 25.

(e) Substance abuse only affects physical health and has no impact on mental well-being.

#### Question 2.

Write 'Yes' for the correct statement and 'No' for the incorrect statement.

(a) Adolescents experience a sudden increase in height.

(b) The development of secondary sexual characters is the same for boys and girls.

(c) Both boys and girls go through emotional changes during adolescence.

(d) Adolescents should maintain personal hygiene, especially during menstruation.

(e) It is not healthy for adolescents to consume alcohol and smoke beedis or cigarettes.

Match the Following

Question 1.

Match Column I with Column II.

Column I

Column II

- |                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| (a) Larynx (Voice box) | (i) Responsible for producing sound and controlling the pitch of the voice.                      |
| (b) Acne and pimples   | (ii) Result from increased oily secretion during puberty.                                        |
| (c) Menstrual cycle    | (iii) Aims to improve the overall health of adolescents, including menstrual health and hygiene. |
| (d) RKSK               | (iv) Marks the onset of puberty in girls.                                                        |
| (e) Cigarette          | (v) Known to be addictive and harmful to health.                                                 |

Assertion-Reason Questions

The questions given below consist of an Assertion and a Reason. Based on that, choose the appropriate option.

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- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) The assertion is true, but the Reason is false.
- (d) The assertion is false, but the Reason is true.

Question 1.

Assertion: During puberty, boys develop broader shoulders and wider chests.

Reason: In girls, the region below the waist, especially the hips, becomes wider.

Question 2.

Assertion: Adolescents often develop acne during puberty.

Reason: Acne is caused by bacterial infection due to poor hygiene.

Question 3.

Assertion: During adolescence, both boys and girls do not experience growth spurts in height.

Reason: A rapid growth of bones and muscles occurs during puberty.

Question 4.

Assertion: Puberty brings about emotional changes that make adolescents more self-conscious.

Reason: Hormonal changes during puberty can lead to mood swings, causing emotional fluctuations.

Question 5.

Assertion: Peer pressure can lead to risky behaviour.

Reason: Adolescents are often influenced by their peers to try harmful substances like cigarettes and alcohol.

### Case-Based Questions

Read the passage carefully and answer the questions that follow.

Raman is a 15-year-old student of grade 8. Over the past 2 years, he has experienced various changes that have majorly impacted his daily life. Raman has observed changes in his voice, height and appearance of pimples. Alongside this, Raman also experienced mood swings and heightened emotions. His social life has also changed. He found himself more independent now.

Question 1.

The changes Raman is experiencing are mostly associated with which stage of life?

- (a) Infancy
- (b) Childhood
- (c) Adolescence
- (d) Adulthood

Question 2.

What physical change can make Raman feel self-conscious?

- (a) Voice deepening
- (b) Appearance of acne and pimples
- (c) Growth in height
- (d) All of these

Question 3.

To regulate his mood swings, what method can be adopted by Raman?

- (a) Ignoring his emotions
- (b) Sleeping more
- (c) Playing more
- (d) Mindfulness and deep breathing

# **PM SHRI Kendriya Vidyalaya Ratlam**

## **Class VII A & B - Social Science Homework**

Students are required to complete the following homework based on the syllabus topics:

- 1 Geographical Diversity of India – Prepare a chart/map showing major physical features of India and write a short note on each.
- 2 Understanding the Weather – Record the daily temperature, rainfall, and wind direction of your city for 7 days and write your observations.
- 3 New Beginnings: Cities & States – Write a short essay on the growth of any one ancient city/state of India.
- 4 The Rise of Empire – Make a timeline chart of major Indian empires and their rulers.
- 5 From the Rulers to Ruled: Types of Governments – Prepare a comparative table of different forms of government with examples.

*Note: Submit the homework in your Social Science notebook with neat and clean presentation.*

**कक्षा सातवीं**  
**शरदकालीन अवकाश गृहकार्य**  
**विषय हिन्दी**

प्रश्न 1 "तीन बुद्धिमान्" कहानी का सारांश लिखिए।

प्रश्न 2 "नहीं होना बीमार " कहानी को अपने शब्दों में लिखिए।

प्रश्न 3 " मां कह एक कहानी " में क्या कहा गया है? इससे मिलने वाली शिक्षा को भी लिखिए

प्रश्न 4 " पानी रे पानी " पाठ के आधार पर मनुष्य जीवन में पानी का महत्त्व बताइए।

प्रश्न 5 निम्नलिखित में से किसी एक विषय पर एक अनुच्छेद लिखिए

1 स्वच्छता का महत्त्व

2 दीपावली

प्रश्न 6 तीन दिन के अवकाश हेतु एक आवेदन पत्र लिखिए।

अथवा

अपने मित्र को एक पत्र लिखकर बताइए कि आपकी परीक्षा की तैयारी कैसी चल रही है?