



पीएम श्री केन्द्रीय विद्यालय नं.1, तिरुपति

**PM SHRI KENDRIYA VIDYALAYA No.1, TIRUPATI**

**WINTER BREAK HOLIDAYS HOME ASSIGNMENTS 2024-2025**

**SECONDARY LEVEL**

**CLASS IX**

## ENGLISH

- 1). Write a letter to The Chairman, Water Authority, in up to 120 to 150 words. Discuss the problem of Water Scarcity. Also suggest effective remedies.
- 2). Read the Newspaper daily and write only one news article under the given headings like National, International , Sports, actress us on it.
- 3). Computers are store houses of knowledge and wisdom. But there are hazards too. Write one article on the topic 'The benefits and hazard of computers'. word limit is 180-200 words
- 4). Write the biography of the following
  - a).Ustad Bismillah Khan
  - b).A.R.Rahman
  - c).A.P.J.Abdul kalam.

## HINDI

1.निम्नलिखित विषयों पर दिए गए बिंदुओं के आधार पर 80-100 शब्दों में अनुच्छेद लिखिए।

(क) शारीरिक शिक्षा और योग

शारीरिक शिक्षा का अर्थ एवं महत्व, शारीरिक शिक्षा और योग, प्रभाव एवं परिणाम

(ख) मेरे सपनों का भारत

भारत के बारे में विचार, उन्नत भारत की चाह, सुखी समृद्ध भारत

2. ए. टी. एम. कार्ड खो जाने की शिकायत संबंधी ई-मेल लिखिए ।

3. दूरदर्शन के कार्यक्रम के विषय में पिता और पुत्री के बीच होने वाले संवाद को लगभग 80 शब्दों में लिखिए।
4. अपने नगर के विद्युत अधिकारी को बिजली की कटौती के कारण पढ़ाई में आने वाली कठिनाई की चर्चा करते हुए, उसमें सुधार हेतु पत्र लिखिए।
5. 'संगठन में शक्ति' उक्ति को आधार बनाकर लघु कथा लिखिए।

## SANSKRIT

1. एकम् अनौपचारिकपत्रं लिखन्तु।
2. स्वइच्छानुसारं किम् अपि चित्रं स्वीकृत्य तस्य उपरि 10 वाक्यानि लिखन्तु।
3. बालक, बालिका, नदी, फलम् च शब्द रूपाणि लिखन्तु स्मरन्तु च।
4. क्त्वा, तुमुन्, ल्यप्, क्त, क्तवतु च प्रत्ययाः ( पञ्च-पञ्च उदाहरणानि ) लिखित्वा आनयन्तु।
5. व्यञ्जन सन्धिः ( जश्त्व सन्धि ) तथा विसर्ग सन्धिः ( उत्त्व, रुत्व ) पञ्च- पञ्च उदाहरणानि लिखित्वा आनयन्तु।

## SCIENCE

Completion of following experiments in the practical record.

1. Verification of the Laws of reflection of sound.
2. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
3. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).
4. Verification of the law of conservation of mass in a chemical reaction.
5. Establishing the relation between the loss in weight of a solid when fully immersed in Unit-III
  - a) Tap water
  - b) Strongly salty water with the weight of water displaced by it by taking at least two different solid

**SOCIAL SCIENCE**

**PM SHRI KENDRIYA VIDYALAYA NO.1**  
**TIRUPATI**

**Winter Holiday Home Work Class IX (Social Science),2024**

NAME \_\_\_\_\_ ROLL \_\_\_\_\_  
NO \_\_\_\_\_ SECTION \_\_\_\_\_

**1. Do you believe that green revolution has made India self - sufficient in food grains ? How?**


**2. How can you help poor people in providing food security ?**


**3. What do you know about Antyodaya Anna Yojana (AAY) ?**


**4. Suppose you are MLA of your area. What values would you follow to become popular in your area?**


**5. Explain any five powers of the supreme court of india ?**


**6. What do you know about Mandal commission?**


**7. What do you know about " Election Commission"?**


**8. Do you think that election promote democracy ?**


**9. Write some of the successful slogans given by different political parties in various elections?**


**10. Give reasons for why we need a parliament?**


**11. Do you agree that India is a secular country? Justify your answer with reasons.**


**12. Why do we need rights in a democracy?**



**13. Write a short note on the National Human rights commission**


**14. Write a a short note on the Right to freedom of religion.**


**15 How can you say that freedom of speech and expression is one of the essential features of any democracy ?**


**16. What do you know about the size and distribution of India's population on the basis of the 2011 Census ?**


**17 Explain any five conditions for free and fair elections ?**


18. On the outline political map of India locate the following union territories:

1. Ladakh
2. Delhi
3. Chandigarh
4. Andaman and Nicobar Islands
5. Lakshadweep

## MATHEMATICS

- 1). The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle. Prove it.
- 2). Prove that a cyclic parallelogram is a rectangle.
- 3). Three girls Reshma, Salma and Mandip are playing a game by standing on a circle of radius 5m drawn in a park. Reshma throws a ball to Salma, Salma to Mandip, Mandip to Reshma. If the distance between Reshma and Salma and between Salma and Mandip is 6m each, what is the distance between Reshma and Mandip?
- 4). A circular park of radius 20m is situated in a colony. Three boys Ankur, Syed and David are sitting at equal distance on its boundary each having a toy telephone in his hands to talk each other. Find the length of the string of each phone.
- 5). A diagonal of a parallelogram divides it into two congruent triangles. Prove it.
- 6). ABCD is a rectangle in which diagonal AC bisects  $\angle A$  as well as  $\angle C$ . Show that: (i) ABCD is a square (ii) diagonal BD bisects  $\angle B$  as well as  $\angle D$ .
- 7). The diameter of the moon is approximately one fourth of the diameter of the earth. Find the ratio of their surface areas and ratio of their volume.
- 8) Find the area of a triangle two sides of which are 18cm and 10cm and the perimeter is 42cm.
- 9). Sides of a triangle are in the ratio of 12 : 17 : 25 and its perimeter is 540cm. Find its area.
- 10). An isosceles triangle has perimeter 30 cm and each of the equal sides is 12 cm. Find the area of the triangle.

## ARTIFICIAL INTELLIGENCE

1. What are the applications of AI?"
2. Define the following terms
  - a) Deep Learning
  - b) Machine Learning
3. Write a short note on Smart home
4. Explain types of data?
5. Explain the different features of data
6. Name the stages of Data Literacy process framework
7. Explain about any one Data visualization tool and how it aids in analysis of data?
8. Name the stages of AI project cycle

## CLASS VIII

### ENGLISH

1. Write a paragraph on the topic " Mobile phones - Boon or Bane" (word limit 100-150)
2. Collect information about any three famous personalities who have overcome all the odds to become successful.
3. Write 20 difficult words with their meanings and make sentences.
4. What steps can you take to create awareness among people about " Save food and Drinking water".

### HINDI

- 1.सूरदास के पद कविता लिखे और कंठस्थ करे।
- 2.संवाद लिखिए
  - I.मां का बच्चे से परीक्षा परिणाम के बारे में संवाद
  - II. कलम का मेज से संवाद
- 3.अपने छोटे भाई को पत्र लिखकर समझाइए कि 'जंक' फूड स्वास्थ्य है हेतु लाभकारी नहीं होते ।
4. निम्नलिखित मुहावरे का अर्थ और वाक्य प्रयोग लिखे और याद करे।
  - I. अंगूठा दिखाना
  - II. अपना उल्लू सीधा करना
  - III. अंधे की लकड़ी

- IV.ईद का चांद होना
- V.नमक मिर्च लगाना
- VI.बाएं हाथ का खेल
- VII. पेट में चूहे दौड़ना
- VIII.लोहे के चने चबाना
- IX.हाथ- पांव फूलना
- X. हाथ बंटाना

5.निम्नलिखित विषयों पर लगभग 100 शब्दों में अनुच्छेद लिखिए -

- I.कम्प्यूटर का महत्व
- II मेरे जीवन का लक्ष्य

6.निम्न शब्दों के विलोम शब्द लिखिए -

- I.तटस्थ
- II.निर्माण
- III.प्रत्यक्ष
- IV.सर्वज्ञ
- V सम्मान
- VI चेतन
- VII.निशाकर
- VIII.मलिन
- IX.कठोर
- X.दुर्गम

## SANSKRIT

- 1.अस्, कृ धातु रूपाणि पञ्च लकारेषु लिखन्तु स्मरन्तु च।
- 2.बालक, बालिका, नदी, फलम् शब्द रूपाणि लिखन्तु स्मरन्तु च।
- 3.संस्कृत छात्र प्रतिज्ञा तथा संस्कृत छात्र प्रार्थना लिखन्तु स्मरन्तु च।
4. 51-100 पर्यन्तं संस्कृत संख्यानाम् स्मरन्तु लिखन्तु च।
5. द्वितीयावधिक परीक्षायाः कृते निम्नलिखित पाठस्य अभ्यासकार्यम् केवलं स्मरन्तु -



क -सप्तभगिन्यः

ख - नितिनवनितम्

ग -सावित्रीबाई फुले

घ -कः रक्षति कः रक्षितः

## SCIENCE

- 1) what is menstruation? Explain.
- 2) what are sex hormones? Why are they named so? State their functions.
- 3) Write notes on (A) Adam's apple. (B) Secondary sexual characters. (C) Sex determination in the unborn baby.
- 4) Define adolescence and puberty
- 5) Draw the diagram of female and male reproductive systems
- 6) Explain why sliding friction is less than static friction.
- 7) Give examples to show that friction is both a friend and a foe
- 8) Explain why objects moving in fluids must have special shapes
- 9) Explain why sportsmen use shoes with spikes.
- 10) you spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor? Why?

## SOCIAL SCIENCE

PM SHRI KENDRIYA VIDYALAYA NO.1 TIRUPATI

Winter Break Home Work (Social Science)

Name \_\_\_\_\_ Class VIII \_\_\_\_\_ Sec \_\_\_\_\_ Roll \_\_\_\_\_

No. \_\_\_\_\_

1. What are population pyramids? How do they help in understanding about the population of a country?

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2. Discuss the role of any two factors influencing population change.

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3. What are the causes for the uneven distribution of population in the world?

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4. Why are people considered a resource?

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5. How did the knowledge of ancient texts help the reformers promote new laws?

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6. What were the different reasons people had for not sending girls to school?

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7. What did Ambedkar want to achieve through the temple entry movement?

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8. List two Fundamental Rights in the Constitution that Dalits can draw upon to insist that they be treated with dignity and as equals.

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9. Describe The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989.

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10. What do you mean by Marginalisation?

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11. Locate the following on the Given Map:

- i) Delhi
- ii) Mumbai
- iii) Chennai
- iv) Madras
- v) Kolkata



## MATHEMATICS

- 1). Write the Volume and Surface area of cuboid, cube, and cylinder.
- 2)Rukhsar painted the outside of the cabinet of measure  $1\text{ m} \times 2\text{ m} \times 1.5\text{ m}$ . How much surface area did she cover if she painted all except the bottom of the cabinet.
- 3)The lateral surface area of a hollow cylinder is  $4224\text{ cm}^2$ . It is cut along its height and formed a rectangular sheet of width  $33\text{ cm}$ . Find the perimeter of rectangular sheet ?
- 4). Water is pouring into a cuboidal reservoir at the rate of  $60\text{ litres per minute}$ . If the volume of reservoir is  $108\text{ m}^3$ , find the number of hours it will take to fill the reservoir.
- 5)A  $5\text{ m } 60\text{ cm}$  high vertical pole casts a shadow  $3\text{ m } 20\text{ cm}$  long. Find at the same time
  - (i) the length of the shadow cast by another pole  $10\text{ m } 50\text{ cm}$  high
  - (ii) the height of a pole which casts a shadow  $5\text{ m}$  long.

## ARTIFICIAL INTELLIGENCE

1. Write down some of the technical skills required in the fields of Artificial Intelligence
2. Select any 5 goals from the Sustainable Development Goals and for each goal write your own view and then answer the following questions:
  - a). What do you understand about the goal?
  - b). What contribution can you make towards the development of the goal?
  - c). How AI will be implemented in order to aid the development of the goal?
3. Create an advertising poster for Smart Home Builder, in the advertisement mention what all smart devices you will use. Also mention the purpose of each device

## CLASS VII

### ENGLISH

- 1). Imagine you are Chandni. Write a diary entry on the day you decided to leave Abbukhan
- .2) Write a paragraph about
  - a) The importance of family and togetherness during holidays.

b) Importance of protecting wild animals.

3) Write a letter to Santa clause mentioning what would you like to do for Christmas

4) Draw a picture of Willy Vonka working in his laboratory according to your imagination and write a short caption.

5) Write 20 synonyms and antonyms of words from your textbook

## HINDI

1. निम्नलिखित विषय पर दिए गए बिंदुओं के आधार पर 80-100 शब्दों में अनुच्छेद लिखिए।  
मेरा प्रिय खेल

संकेत बिंदु- आपका प्रिय खेल, खेल खेलने का ढंग, खेल का आकर्षण, खेल खेलने का लाभ

2. आप अपने विद्यालय में सातवीं कक्षा के छात्र हैं। आप अपनी बहन की शादी में जाना चाहते हैं। अतः पाँच दिनों के अवकाश हेतु प्रधानाचार्य को प्रार्थना-पत्र लिखिए।

3. छात्र और अध्यापक बीच गृहकार्य विषय पर हुई बातचीत को संवाद के रूप में लगभग 80 शब्दों में लिखिए।

4. वाक्यांश के लिए एक शब्द लिखिए।

1. जिसमें विष हो 2. जिस पर विश्वास न किया जा सके 3. जिसका वर्णन न किया जा सके 4. थोड़ा जानने वाला

5. जो सब जानता हो 6. गाँव में रहने वाला 7. छात्रों के रहने का स्थान 8. जल में रहने वाला

9. आकाश में विचरने वाला

10. जिसका आकार न हो

5. निम्नलिखित उपसर्ग के तीन-तीन उदाहरण लिखिए।

अनु, अति, उप, अव, प्र, प्रति, सु, बद, हेड, अन, वि, अभि, आ, स्व, हम

6. पाठ्यपुस्तक की एक कविता याद करना व लिखना। (भोर और बरखा)

## SANSKRIT

1. भू, गम्, पठ्, कृ धातु रूपाणि पञ्च लकारेषु लिखन्तु स्मरन्तु च।

2. मधु, राम, बालक, नदी, फलम् शब्द रूपाणि लिखन्तु स्मरन्तु च।

3. संस्कृत छात्र प्रतिज्ञा तथा संस्कृत छात्र प्रार्थना लिखन्तु स्मरन्तु च।

4. 1-100 पर्यन्तं संस्कृत संख्यानाम् स्मरन्तु लिखन्तु च।

5. उदाहरणानुसारं स्म शब्दं योजयित्वा भूतकालिकक्रियां रचयत-

यथा - अवसत् = वसति स्म।

अपठत्

अपतत्

अपृच्छत्

अत्रोच्यते

अवदत्

अनयत्

6. विलोमपदानि लिखत

शत्रुतायाः

पुरा

मानवाः

उदारचरितानां

सुखिनः

अपहाय

## SCIENCE

- 1) Do you think an electromagnet can be used for separating plastic bags from a garbage heap?
- 2) What is an electric fuse? Write its importance Explain
- 3) Give a diagrammatic representation of a closed circuit consisting of a battery of four cells, a bulb, and a switch
- 4) Write any two differences between real and virtual images
- 5) A shopkeeper wants to fix a mirror which will give a maximum view of his shop to avoid theft.
  - a) What type of mirror should he use ? Give a reason.
  - b) Give another uses of the mirror which will be used by the shopkeeper
- 6) What are the consequences of deforestation on global climate change and biodiversity loss?
- 7) Give one example of a food chain.
- 8) State the characteristics of the image formed by a plane mirror

- 9) Suggest three measures to protect ourselves from lightning  
10) Name any two effects of electric current

## SOCIAL SCIENCE

**PM SHRI KENDRIYA VIDYALAYA NO.1 TIRUPATI**  
**Winter Break Home Work (Social Science)**

Name \_\_\_\_\_ Class VII \_\_\_\_\_ Sec \_\_\_\_\_ Roll \_\_\_\_\_  
No. \_\_\_\_\_

**12.** How was the administration of the Ahom state organised?

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**13.** What kinds of exchanges took place between nomadic pastoralists and settled agriculturists?

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**14.** What were the major teachings of Baba Guru Nanak?

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**15.** Why do you think ordinary people preserved the memory of Mirabai?

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**16.** Why The rainforests are depleting?

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**17.** Why Paddy is grown in the Ganga-Brahmaputra plains?

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**18.** Give an account of the climate of amazon basin.

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**19.** In what ways does the media play an important role in a democracy?

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**20.** In what ways is a hawker different from a shop owner?

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**10.** Explain how a chain of markets is formed. What purpose does it serve?

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**11.** Locate the following on the Given Map:

- vi) Delhi
- vii) Mumbai
- viii) Chennai
- ix) Madras
- x) Kolkata





## MATHEMATICS

(1) List five rational numbers between:

- (a) -2 and -1
- (b)  $-\frac{4}{5}$  and  $-\frac{2}{3}$

(2) Give four rational numbers equivalent to

- (a)  $\frac{4}{9}$
- (b)  $-\frac{3}{4}$

(3) Draw the number line and represent the following rational numbers on it:

- (a)  $\frac{3}{4}$
- (b)  $-\frac{7}{4}$
- (c)  $\frac{7}{8}$

(4) Find the sum:

- (a)  $-\frac{2}{3} + \frac{1}{7}$
- (b)  $\frac{4}{9} + (-\frac{2}{7})$
- (c)  $\frac{5}{3} + \frac{3}{5}$

(5) Subtract the following :

- (a)  $(-\frac{5}{6}) - \frac{1}{3}$
- (b)  $\frac{3}{4} - \frac{4}{3}$

(6) Find the product:

(a)  $(9/2) \times (-7/4)$

(b)  $(-6/5) \times (9/11)$

(7) Find the value:

(a)  $(-4) \div (2/3)$

(b)  $(-2/13) \div (1/7)$

(8) Write the following formulas.

2 times

(a) Area of the Parallelogram

(b) Area of the Triangle

(c) Circumference of the circle

(d) Area of the circle

(e) Circumference of the semicircle

(9) If  $m=2$ , find the value of:

(a)  $m-2$

(b)  $9-5m$

(10) Find the value of following expressions, when  $x=-1$ :

(a)  $-x+2$

(b)  $2x-7$

## **ARTIFICIAL INTELLIGENCE**

1. Write any 5 application of AI in our daily life with example?
2. What are the types of AI based on Capabilities and Functionalities.
3. Enlist the Sustainable Development Goals.
4. Write a short note on
  - a) Cortana(2014)
  - b) IBM Watson(2011)
  - c) Roomba(2002)
  - d) Google Assistant
  - e) Siri(2011)

## **CLASS VI**

### **ENGLISH**

- 1) Write a recipe for a home remedy using spices. Write the ingredients, methods and benefits of your remedy.
- 2) Write a short paragraph on

- a) Importance of practicing yoga
- b) Your favourite sports and how it helps you stay healthy.
- 3) Create a colorful poster of yoga
- 4) Write 20 synonyms and antonyms of words from your textbook

## HINDI

1. हिंदी की वर्णमाला एवं बारह खड़ी को सही उच्चारण के साथ दो बार लिखिए एवं याद कीजिए।
2. 'मेरा विद्यालय' इस विषय पर 100 शब्दों में एक अनुच्छेद लिखिए ।
3. विवाह में जाने हेतु प्रधानाध्यापक को 3 दिन की छुट्टी के लिए आवेदन पत्र लिखें ।
4. 'मैं नहीं माखन खायो' इस कविता को लिखकर याद करें।

## SANSKRIT

1. बालक, बालिका और पुष्प शब्द के रूप लिखकर याद कीजिए।
2. पठ्, लिख्, गम्, चल्, हस् धातुओं के लटलकार के रूप लिखकर याद कीजिए।
3. दशानां पुष्पफलशाकानां चित्राणि संगृह्य तेषां संस्कृतनामानि लिखित।  
(दस-दस फूलों फलों एवं सब्जियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
4. केषाञ्चन पञ्चानां वन्यजीवानां, पालतूपशूनां, पक्षिणां च चित्राणि संगृह्य तेषां संस्कृतनामानि लिखित।  
(किन्हीं पांच -पांच वन्य पशुओं, घरेलू पशुओं एवं पक्षियों के चित्र एकत्रित कर उनके संस्कृत नाम लिखिए।)
5. संस्कृत की छात्र प्रतिज्ञा लिखकर याद कीजिए।

## SCIENCE

### Activity Book: (SEA)-A4 SHEETS

1. In your opinion, would the environment affect the life cycles of insects?  
Explore and list the factors that affect the life cycles of insects.
2. Draw the flow charts depicting the life cycles of:  
a. Plant b. Mosquito c. Silk moth d. Frog
3. There is an increasing demand of trees to meet the requirements of industries and for housing. Therefore, trees are being felled. Is it justified? Discuss and prepare a brief report.
4. Write the advantages of CNG over petrol and diesel.

5. Propose a plan to use less water in your school. What steps would you take to make this plan happen and how would it help the environment?
6. Prepare a 'firki' of your own and submit the same.

**Home work: (Write in home work book)**

1. Meanings of the keywords of Chapter No.10
2. Give a brief account the scientist Sri Jagadish Chandra Bose.

## **SOCIAL SCIENCE**

- 1 . What was the earliest civilisation of the Indian Subcontinent?
2. The Harappan cities were well planned cities. Do you agree? Explain.
3. The ancient cities of \_\_\_\_\_ and \_\_\_\_\_ were the first to be discovered in the indus valley civilization.
4. Three levels of the Panchayat together look after development of the whole district. What are the three levels of the Panchayati Raj system?
5. What is the tenure/period of members of the Gram Panchayat?
6. Who is the head of the Gram Panchayat?
7. How do we classify economic activities into three sectors? Explain with example.
8. In your view, what type of person should be a Gram Panchayat member?
9. Write a brief report (100 to 120 words) summing up some of the achievements of the Indus-Sarasvatī civilisation/Indus valley civilisation.

## **MATHEMATICS**

- (1) Find the common factors of:
  - (a) 20 and 28
  - (b) 4,8 and 12
- (2) Write all the prime numbers from:
  - (a) 1 to 100
  - (b) 1 to 50
- (3) Check the following are co-prime or not
  - (a) 4 and 15
  - (b) 18 and 35
- (4) Find the prime factorisation of the following numbers:

- (a) 64
- (b) 104
- (c) 1000
- (d) 243
- (6) Write the following formulas:2 times
  - (a) Perimeter of a Rectangle
  - (b) Perimeter of a square
  - (c) Area of a Rectangle
  - (d) Area of a square
- (7) Find the remainders obtained when each of the following numbers are divided by i)10,ii) 5,iii) 2
  - (a) 78
  - (b) 99
  - (c)1111
- (8) Find the missing terms:
  - (a) Perimeter of a Rectangle =14cm; breadth=2 cm;length=?
  - (b) Perimeter of a square=20cm; side of a length=?
- (9) The area of a Rectangular garden that is 50m long is 1000sq.m.Find the width of the garden.

## ARTIFICIAL INTELLIGENCE

1. Write the definition for AI?
2. What are the fields in which AI can be helpful?
3. Write the difference between Artificial Intelligence and Human Intelligence?
4. Write a short note on
  - a. Roomba(2002)
  - b. Alexa(2014)
  - c. IBM Watson(2011)
  - d. Siri(2011)
  - e. Cortana(2014)

HAPPY WINTER  
HOLIDAYS!!!

