तत त्वं पूस अपाववृणु
केन्द्रीय विद्यालय संगठन

PM SHRI KENDRIYA VIDYALAYA
CRPF BIJNOUR, LUCKNOW

SHIFT-2

SUMMER HOLIDAY HOMEWORK

ENGLISH

CLASS X

READ • ANALYZE • EXPRESS • SUCCEED

PLAN TODAY
WORK TODAY
SHINE TOMORROW

1 MAIN TASK

- Prepare a portfolio of your own.



2 GRAMMAR WORKSHEET (A4 PAGE)

Prepare one worksheet of the following grammar topics:

- Subject-verb agreement
- Reported speech
- Modals
- Tenses
- Determiners



3 FORMAL LETTERS (NOTEBOOK)

Write four following formal letters:

- Letter to Editor
- Letter of Complaint
- Letter to place order
- Letter of enquiry



4 ANALYTICAL WRITING (NOTEBOOK)

- Write any five Analytical paragraphs.





GENERAL INSTRUCTIONS

- ✅ Do your homework neatly and on your own.
- ✅ Use A4 sheets / Notebook as required.
- ✅ Make it creative and presentable.
- ✅ Submit on the opening day after the vacation.

BE CREATIVE!
BE ORIGINAL!
DO YOUR BEST!
ALL THE BEST!





YOUR HARD WORK
TODAY BRINGS A BETTER
TOMORROW ☺

केंद्रीय विद्यालय सी.आर.पी.एफ. बिजनौर लखनऊ

(ग्रीष्मकालीन अवकाश कार्य)

CLASS-10

1. निम्नलिखित तीन विषयों पर संकेत बिन्दुओं के आधार पर लगभग शब्दों में एक अनुच्छेद लिखिए :

   (क) ऑनलाइन गेमिंग का बढ़ता जाल- ऑनलाइन गेमिंग क्या है ? बच्चों और किशोरों पर बढ़ती पकड़, ऑनलाइन गेमिंग के दुष्परिणाम|

   (ख) स्वस्थ जीवन शैली- स्वस्थ जीवन शैली की आवश्यकता, स्वस्थ आदतें जिनका पालन किया जाना चाहिए, स्वस्थ जीवन शैली के लाभ|

2. (क) आप आनंदी/आनंद हैं। अपने क्षेत्र में बिजली की कटौती से उत्पन्न समस्याओं का उल्लेख करते हुए किसी लोकप्रिय दैनिक समाचार-पत्र के संपादक को लगभग 100 शब्दों में पत्र लिखिए।

   (ख) आप आनंदी/आनंद हैं। छोटे-मोटे रोगों के लिए आपकी दादी माँ द्वारा बताए गए घरेलू नुस्खों को संकलित करके आपने एक पुस्तक बनाई है। जिसका नाम आपने 'दादी माँ के घरेलू नुस्खे' रखा है। पुस्तक के प्रकाशन के अवसर पर अपनी दादी माँ को आमंत्रित करते हुए उन्हें लगभग 100 शब्दों में पत्र लिखिए।

<u>(व्यावहारिक व्याकरण)</u>

3. निर्देशानुसार 'रचना के आधार पर वाक्य भेद' पर आधारित प्रश्नों के उत्तर लिखिए :

   (क) नवाब साहब ने तौलिया झाड़ा और सामने बिछा लिया । (सरल वाक्य में बदलिए)

(ख) हालदार साहब को उधर से गुज़रते समय मूर्ति में कुछ अंतर दिखाई दिया। (मिश्र वाक्य में बदलिए)

(ग) मन्नू के एक इशारे पर लड़कियाँ कक्षा से बाहर निकलकर नारे लगाने लगीं।(संयुक्त वाक्य में बदलिए)

(घ) कातिक आया नहीं कि बालगोबिन भगत की प्रभातियाँ शुरू हुईं। (रचना की दृष्टि से वाक्य का भेद लिखिए)

(ड) सबसे बड़ी बात है कि काशी के पास उस्ताद बिस्मिल्ला खाँ जैसा नायाब हीरा रहा है। (रेखांकित उपवाक्य का भेद लिखिए)

4. आप मेधावी / माधव हैं। ए. टी. एम. कार्ड न मिलने की सूचना देते हुए संबंधित (बैंक शाखा प्रबंधक को लगभग 80 शब्दों में एक ई-मेल लिखिए
5. प्रदूषण से बचने के लिए पर्यावरण विभाग की ओर से जनहित में जारी एक आकर्षक विज्ञापन लगभग 40 शब्दों में तैयार कीजिए।
6. आपके कक्षा अध्यापक को 'राष्ट्रीय शिक्षक पुरस्कार से सम्मानित किया गया है। उन्हें बधाई देते हुए लगभग 40 शब्दों में संदेश लिखिए

PM SHRI KV CRPF LUCKNOW (2026-27)

SUMMER VACATION HOME-WORK

SUBJECT-MATHS **CLASS-10TH**

Instructions for Submission:

- **Use Homework notes for solving and don't write solutions from the google/internet.**
- **Submission Date: First day after summer vacation.**
- **All work must be handwritten.**
- **Marks will be awarded for neatness, completeness, and creativity.**

- **If any question is not clear, students can leave that question or ask me on WhatsApp.**

1. Prove that:

   a) √2 is an irrational number.
   b) √3 is an irrational number.

2. Write 5 examples each of:

- Linear polynomial
- Quadratic polynomial
- Cubic polynomial

3. Find the HCF and LCM of 56 and 72 using prime factorization.

4. For the quadratic polynomial $x^2 - 5x + 6$, find its zeros and verify the relationship between the zeros and the coefficients.

5. Verify that:

- HCF × LCM = Product of the two numbers for (48, 84).

6. Find the prime factorisation of 360 and express it as a product of primes.

7. Prove that $3 + 2\sqrt{5}$ is irrational.

8. Prove that $7\sqrt{2}$ is irrational.

9. Write the degree and number of terms in the following polynomials:

- $4x^3 - 3x^2 + 2x - 7$
- $x^2 + 2x$
- 7

10. Find the zero(s) of the following polynomials:

    - $x^2 - 7x + 10$
    - $x^2 + 2x - 15$
    - $x^2 - 9$

11. If α and β are the zeros of the polynomial $x^2 - 3x + 2$, find:

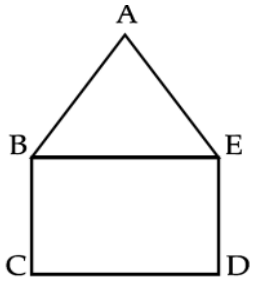
    - α + β
    - αβ
    - Verify the relationship with coefficients.

12. Form a quadratic polynomial whose sum and product of zeroes are:

- (a) 4, 1
- (b) –3, 2

- **PRACTICE SET 1**
- SECTION – A Questions 1 to 10 carry 1 marks each
- 1. Two lines are given to be parallel. The equation of one of the lines is 3x – 2y = 5. The equation
- of the second line can be
- (a) 9x + 8y = 7 (b) –12x – 8y = 7 (c) –12x + 8y = 7 (d) 12x + 8y = 7
- 2. What is the value of k such that the following pair of equations have infinitely many solutions?
- x – 2y = 3 and – 3x + ky = – 9.
- (a) (–6) (b) –3 (c) 3 (d) 6
- 3. The pair of linear equations (3/2)x + (5/3)y = 7 and 9x + 10y = 14 is
- (a) consistent (b) inconsistent
- (c) consistent with one solution (d) consistent with many solutions
- 4. If the system of equations 3x + y = 1 and (2k – 1)x +(k – 1)y = 2k + 1 is inconsistent, then k =
- (a) –1 (b) 0 (c) 1 (d) 2
- 5. The values of x and y satisfying the two equations 32x + 33y = 34, 33x + 32y = 31 respectively
- Are (a) –1, 2 (b) –1, 4 (c) 1, –2 (d) –1, –4
- 6. What is the value of q if p/2 + 3q = 6 and 2p – 2q = 10?
- (a) 1 (b) 4 (c) 6 (d) 16
- 7. If the lines given by 3x + 2ky = 2 and 2x + 5y + 1 = 0 are parallel, then the value of k is
- (a) −5/4 (b) 2/5 (c) 15/4 (d) 3/2
- 8. The pair of equations ax + 2y = 9 and 3x + by = 18 represent parallel lines, where a, b are
- integers, if :
- (a) a = b (b) 3a = 2b (c) 2a = 3b (d) ab = 6
- In the following questions 9 and 10, a statement of assertion (A) is followed by a statement of reason
- (R). Mark the correct choice as:
- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.
- 9. Assertion (A): If the pair of linear equations 3x + y = 3 and 6x + ky = 8 does not have a
- solution, then the value of k = 2.
- Reason (R): If the pair of linear equations x + y – 4 = 0 and 2x + ky = 3 does not have a
- solution, then the value of k = 2.
- 10. Assertion (A): If the equation 3x – y + 8 = 0 and 6x – ky = –16 represent coincident lines, then
- the value of k = 2.
- Reason (R): If the lines given by 3x + 2ky = 2 and 2x + 5y + 1 = 0 are parallel, then the value of

- k is 15.
- SECTION – B Questions 11 to 14 carry 2 marks each.
- 11. For what value of k, will the following pair of equations have infinitely many solutions:
- 2x + 3y = 7 and (k + 2)x – 3 (1 – k)y = 5k + 1
- 12. If 49x + 51y = 499, 51x + 49y = 501, then find the value of x and y.
- 13. If x = a and y = b is the solution of the pair of equations x – y= 2 and x + y = 4, find the values of
- a and b.
- 14. The age of the father is twice the sum of the ages of his two children. After 20 years, his age will
- be equal to the sum of the ages of the children. Find the age of the father.
- SECTION – C Questions 15 to 17 carry 3 marks each.
- 15. In the figure, ABCDE is a pentagon with BE||CD and BC||DE. BC is perpendicular to CD.
- AE = AB = 5 cm, BE = 7 cm, BC = x – y and CD = x + y. If the perimeter of ABCDE is 27 cm.
- find the value of x and y, given x, y ≠ 0.
- 16. A fraction becomes 1/3 when 2 is subtracted from the numerator and it becomes 1/2 when 1 is subtracted from the denominator Find the fraction.
- 17. If 2x + y = 23 and 4x – y = 19, find the value of (5y – 2x) and (y/x - 2)
- SECTION –D Question 18 carry 5 marks
- 18. Determine graphically the co-ordinates of the vertices of triangle, the equations of whose sides are given by 2y – x = 8, 5y – x = 14 and y – 2x = 1.



SUMMER VACATION HOLIDAY HOMEWORK 2025-26

Class Xth SUBJECT-SOCIAL SCIENCE

1. 1. Make a project on any one of the following

(a) Sustainable Development

(b) Consumers Awareness

(c) Social Issues

(Do this in a project file,15-16 pages on A4 sheets.)

2. Make a project on culture,dance and literature of Meghalaya.

3. Make and write ten questions and answers of one mark (one word or one sentence) of each lesson completed.

4. Learn and revise all the completed chapters and also complete your CW and HW copy.

5. Make mind maps on completed chapters.

6. Do map practice of History and Geography.

Class 10 — Science — Life Processes

SCIENCE HOLIDAY HOMEWORK# Chapter – life processes

Subject: Science | Class: Class 10

Section A: Objective Type Questions (20 marks)

Part I: Multiple Choice Questions (1 mark each)

Instructions: Choose the correct option for each question.

1. Which of the following is responsible for the transport of water in plants?

• (a) Phloem

• (b) Xylem

• (c) Cortex

• (d) Epidermis

(1 mark)

2. The process by which green plants prepare their own food is called:

• (a) Respiration

• (b) Translocation

• (c) Photosynthesis

• (d) Digestion

(1 mark)

3. In human beings, the excretory products in the form of soluble nitrogen compounds

are removed by:

• (a) Liver

• (b) Lungs

• (c) Kidneys

• (d) Skin

(1 mark)

4. Which pigment in red blood corpuscles carries oxygen?

• (a) Chlorophyll

• (b) Haemoglobin

• (c) Melanin

• (d) Keratin

(1 mark)

5. The breakdown of glucose in the presence of oxygen is called:

• (a) Anaerobic respiration

• (b) Aerobic respiration

• (c) Fermentation

• (d) Photosynthesis

(1 mark)

6. The main function of digestive enzymes is to:

• (a) Absorb food

• (b) Break down food molecules

• (c) Transport food

• (d) Store food

(1 mark)

7. The functional unit of kidney is:

• (a) Neuron

• (b) Nephron

• (c) Alveolus

• (d) Glomerulus

8. Double circulation in humans means:

• (a) Blood passes through heart once

• (b) Blood passes through heart twice

• (c) Blood passes through lungs only

• (d) Blood passes through kidneys only

9. In amoeba, food is taken in by:

• (a) Cilia

• (b) Pseudopodia

• (c) Flagella

• (d) Tentacles

10. Which of the following is not a raw material for photosynthesis?

• (a) Sunlight

• (b) Oxygen

• (c) Water

• (d) Carbon dioxide

Part II: Fill in the Blanks (1 mark each)

11. The process by which plants lose water in the form of vapour is called _____.

(1 mark)

12. The vascular tissue responsible for translocation of food in plants is _____.

(1 mark)

13. In humans, oxygen is transported by _____.

(1 mark)

14. The finger-like projections in the small intestine that help in absorption are called

_____.

(1 mark)

15. The process of removal of metabolic waste from the body is called _____.

(1 mark)

Part III: Match the Following (5 marks)

Instructions: Match Column A with Column B. Write the correct option (a, b, c, d, e) against each number.

16. Match the following:

Column A Column B

(i) Kidney (a) Photosynthesis

(ii) Alveoli (b) Excretion

(iii) Chlorophyll (c) Absorption of digested food

(iv) Villi (d) Exchange of gases

(v) Phloem (e) Translocation of food

Part IV: One Word Answer (1 mark each)

Instructions: Answer the following questions in one word or one short phrase.

17. Name the pigment essential for photosynthesis.

18. What is the waste product of photosynthesis?

19. Which enzyme in saliva helps in the digestion of starch?

(1 mark)

20. What is the mode of nutrition in fungi like bread mould?

(1 mark)

21. Which structure in the heart prevents mixing of oxygenated and deoxygenated blood?

(1 mark)

Section B: Short Answer Type I (2 marks each)

Instructions: Answer the following questions in 50-75 words approximately.

22. Define autotrophic nutrition and give one example.

(2 marks)

23. Give two reasons why diffusion is insufficient for multicellular organisms.

(2 marks)

24. State two functions of saliva in digestion.

(2 marks)

25. What are the two main components of the transport system in plants?

(2 marks)

Section C: Short Answer Type II (3 marks each)

Instructions: Answer the following questions in 75-100 words approximately. Internal choice is provided in some questions.

26. Explain the process of aerobic respiration in human beings.

(3 marks)

OR

Describe the process of anaerobic respiration in yeast.

(3 marks)

27. Differentiate between xylem and phloem with respect to their functions.

(3 marks)

28. How is the small intestine designed to absorb digested food efficiently?

(3 marks)

OR

Describe the structure and function of villi in the small intestine.

(3 marks)

29. What is dental caries? Explain how it can be prevented.

(3 marks)

Section D: Long Answer Questions (5 marks each)

Instructions: Answer in detail (150-200 words). Show all working. Draw neat labeled diagrams. Internal choice is provided in some questions.

30. Describe the structure and functioning of the nephron with a neat labeled diagram.

(5 marks)

OR

Explain the process of excretion in human beings. Include a diagram of the excretory system.

(5 marks)

31. Explain double circulation in human beings. Why is it necessary?

OR

Describe the process of transportation of water and minerals in plants. Include the role of transpiration.

SUMMER VACATION HOLIDAY HOMEWORK (SESSION: 2026-2027)

SUBJECT: - **VOCATIONAL EDUCATION (VE)**

Objective: To develop basic life skills and self-help habits.
Focus: Learning by doing, creativity, and real-life skill development.
Activities:

1. **My Helping Hands (Atleast 20 days record)**
   - Help your family in any 5 daily activities (cleaning, arranging, watering plants).
   - Write 5–6 lines about what you learned.
2. **Creative Craft**
   - Make a pen stand or toy using waste material.
3. **Healthy Routine Chart**
   - Prepare a daily routine including study, play, sleep, and hygiene.
4. **Know Your Surroundings**
   - Observe a worker (e.g., gardener/vendor).
   - Write an interview / brief description about their work.

General Instructions:

- Maintain neat and clean work.
- Use a separate notebook/file for holiday home work.
- Include drawings, pictures, and creativity.
- Submit after vacation.

Class 10 A.I. Homework :

You have to make one project file containing following:

By taking three different examples (three cases) you have to explain every stage of A.I project cycle briefly.

ART EDUCATION PORTFOLIO

CLASS 10th

(Session 2026–27)

Name : _____

Class : _____

Section : _____

Roll No. : _____

School Name : _____

Subject : Art Education



DRAWING WORK

- Still Life Drawing
- Human Figure
- Nature Drawing
- Object Study



THEORY WORK

- Elements + Principles of Art (Detail में)
- Indian Art Forms: Madhubani, Warli, Rangoli, etc.
- Art Terms & Definitions

PORTFOLIO

8 to 10 Best Drawings

INDIAN ART FORMS

MADHUBANI ART



WARLI ART



RANGOLI DESIGN



FAMOUS ARTISTS

- Raja Ravi Varma
- M. F. Husain
- Leonardo da Vinci
- Rabindranath Tagore



RAJA RAVI VARMA

(A LADY WITH VEENA)



PM SHRI KENDRIYA VIDYALAYA CLASS 10th