

RAHUL MODEL PUBLIC SCHOOL
Recognised Senior Secondary & Affiliated to CBSE
Railway Road, Sadh Nagar-II, Palam Colony, New Delhi
Holiday Homework (2024-25)
Class - IX

ENGLISH

Follow a Schedule during holidays.

Be a good time manager.

Give time to pursue your hobby.

Minimize the use of gadgets.

Give prime importance to your Health. Eat lots of fruits, do exercise and get into yoga.

Improve your vocab.

- 1. Assignment:-**
1. Write 10 MCQ of each chapter covered in PT-1
 2. Do the Exam Mate Practice Exercise (reading skill) - 1 (pg no. 28) and 2 (pg no. 30)
 3. Do the Exam Mate Practice Exercise (Writing skill – Descriptive paragraph) – 6 (Pg no. 82) and 7 (pg no. 83)
 4. Do the Exam Mate Practice Exercise (story writing) – 1 (Pg no. 111) and 2 (Pg no. 112)

2. Multiple Assessment

Idioms –

How to do: - write an idioms in A3 sheet and explain it with picture.

Where to do: - A3 sheet

Parameters: - creativity, pictures, relevance.

Make an Idioms on below mentioned topic roll number wise.

1. Make someone's day – Roll no. 1 to 5
2. Be all ears – Roll no. 6 to 10
3. Accident of birth – roll no. 11 to 15

4. Like father, like son – Roll no. 16 to 20
5. Break the ice – Roll no. 21 to 32

3. Subject Enrichment

Make a Comic strip on “fun they had” chapter.

Where to do: - scrapbook

Parameters: - Content, creativity, pictures and relevance.

MATHEMATICS

Subject enrichment activity-

Complete the activities 1, 2, 6, 7, 8, 19, 21

Multiple activities

- (i) Write all the identities on A3 sheet.
(ii) Prepare a chart of Co-ordinate Geometry on A3 sheet. (Roll No. – 1 to 14)

Note:- Do practice of chapter 1, 2, 3, 4

Assignment

Q.1 The value of $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

Q. 2 Find the product of : $\sqrt[3]{2} \cdot \sqrt[4]{2} \cdot \sqrt[12]{32}$

Q.3 Find the value of $\sqrt[4]{(81)^{-2}}$

Q. 4 Find the value of $(256)^{0.16} \times (256)^{0.09}$.

Q.5 Find the value of ‘a’ in the following $\frac{6}{3\sqrt{2}-2\sqrt{3}} = 3\sqrt{2} - \sqrt{3}$

Q.6 Simplify:

$$\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$$

Q.7 By remainder Theorem find the remainder, when P(x) divided by g(x) where

$$P(x) = x^3 - 3x^2 + 4x + 50, \quad g(x) = (x - 3)$$

Q.8 Factorise

(i) $x^3 - 6x^2 + 11x - 6$

(ii) $3x^3 - x^2 - 3x = 1$

Q.9 Factorise:

$$25x^2 + 16y^2 + 4z^2 - 40xy + 16yz - 20xz$$

Q.10 Plot point P(1, 0), Q(4, 0) & S(1, 3). Find the Coordinates of the point R such that PQRS is a square.

Q.11 Simplify-

$$\frac{7\sqrt{3}}{\sqrt{10+\sqrt{3}}} - \frac{2\sqrt{5}}{\sqrt{6+\sqrt{5}}} - \frac{3\sqrt{2}}{\sqrt{15+3\sqrt{2}}}$$

Q.12 If $\sqrt{2} = 1.414$, $\sqrt{3} = 1.732$, then find the value of $\frac{4}{3\sqrt{3}-2\sqrt{2}} + \frac{3}{3\sqrt{3}+2\sqrt{2}}$

Q.13 Plot the following points and write the name of the figure obtained by joining them in order

P(-3, 2), Q(-7, -3), R(6, -3), S(2, 2)

Q.14 Plot the point A(1, -1) & B (4, 5)

(i) Draw line segment joining these points. Write the coordinates of a point on this line segment between the point A and B.

(ii) Extend this line segment and write the Coordinates of a point on this line which lies outside the line segment AB.

SCIENCE

Q 1. Prepare a concept map on a A-3 size sheet according to the given topics below keeping the following points in mind.

Heading, Neatness, presentation of topic

Roll No. 1 to 4 —————> Matter in our surrounding

Roll No. 5 to 8 —————> Motion

Roll No. 9 to 12 —————> Cell Organelles

Roll No. 13 to 16 —————> Sound / Work and energy

Roll No. 17 to 20 —————> Plant Tissue / Gravitation

Roll No. 21 to 24 —————> Animal Husbandry

Roll No. 25 to 28 —————> Animal Tissue / Force and laws of motion

Q 2. Draw a well labelled diagram based on the below mentioned topics on A-3 size sheet. It should be neat and labelled

Roll No. 1 to 5 —————> Separation techniques (any four)

Roll No. 6 to 10 —————> Any scientist with their contribution

Roll No. 11 to 15 —————> Types of animal tissues

Roll No. 16 to 20 —————> Sonar and its application

Roll No. 21 to 25 —————> Types of energy

Roll No. 26 to 30 —————> Force and laws of motion

ASSIGNMENT

INSTRUCTIONS-

- Assignment to be done on a A-4 size sheet.
- Mention the question number as per the assignment.

Q 3. Answer the following in one word or one sentence- (1x10=10)

- (1) Why does a gas exert pressure?
- (2) What is evaporation?
- (3) What is sublimation?
- (4) What is the name given to the functional segments of DNA?
- (5) Where are proteins synthesized inside the cell?
- (6) What is protoplasm?
- (7) Can a body have constant speed and still be accelerating?
- (8) What does the slope of a velocity time graph represent?
- (9) Can a speed of a body be negative?
- (10) What is velocity?

Q 4. Very short answer questions(Give reasons) (2x5=10)

- (1) Can a body move horizontally with acceleration in vertical direction? If yes, Why?
- (2) Why are lysosomes known as suicide bags?
- (3) A gas fills completely the vessel in which it is kept?

- (4) Why is the cell called the structural and functional unit of life?
(5) Why should we wear cotton clothes in summer?

Q 5. Short answer questions- (3x5=15)

- (a) Two trains A and B of length 400m each are moving on two parallel tracks with uniform speed of 72km/h in the same direction with A ahead of B. the driver of B decides to overtake A and accelerates by 1m/s^2 . If after 50 seconds, the guard of B just passes the driver of A, what was the original distance between them?
(b) The velocity of a car is 120km/h. How much distance will it travel in 30 sec?
(c) Differentiate between speed and velocity?
(d) Draw a diagram of a prokaryotic cell and label at least four parts in it.
(e) What are the factors which affects the rate of evaporation? Explain.

Q 6. Long answer questions- (5x3=15)

- (a) Give reasons
(i) Water at room temperature is a liquid.
(ii) Naphthalene balls disappear with time without leaving any solid.
(iii) We can get smell of perfume sitting several metres away.

SOCIAL SCIENCE

- I. Prepare project file on 'DISASTER MANAGEMENT' (Subject enrichment activity)

Sub Topics

- What is Disaster? (General Introduction)
- Types of Disaster (Natural and Man-made)
- Briefly explain each disaster
- Consequences of disaster
- create awareness and preparedness

NOTE-The project should not exceed more than 25 pages and the project report must be handwritten as it will be evaluated for internal marks.

- Picture should be pasted wherever needed

- II. Write about merits and demerits of democracy. Make a list of 10 democratic countries and 5 non democratic countries and also find out

which type of government is there in that five non democratic countries.

III. Make a list (On chart paper) of all the States and Union Territories (with their capital) of India and learn it.

Or

Make a list of Presidents with their turnover on chart paper.

IV. Write an essay on Napoleon Bonaparte. (Also paste picture)

V. Do solve the question paper of Periodic Test-I in your notebook.

VI. Locate all the states and Union Territories on political map of India.

VII. Practice all the map work from Ch-1 Geography.

VIII. In a map of France mark and locate the following areas :
Nantes, Bordeaux, Paris and Marseilles.

INFORMATION TECHNOLOGY

Complete the following assignment in Practical File

Note – Don't use plastic folders, use paper folder only. Draw or paste the pictures wherever required.

Practical file must contain at least 25 pages.

Q.1 What are the different parts of CPU?

Q.2 What is Motherboard?

Q.3 Differentiate between-

(a) Hardware and Software (b) Application Software and System software

Q.4 In computer Systems, what is the function of BIOS?

Q.5 Define-

(a) WWW

(b) URL

Q.6 What is operating system? What are the functions of OS?

Q.7 Write a short note on the factors influencing self- management.

Q.8 Differentiate between Interest and Ability.

Q.9 How to built self- confidence?

Q.10 What is the importance of –

(a) positive thinking

(b) personal hygiene

Q.11 What is Communication? What are the methods of communication? State advantages and disadvantages of each method.

Q.12 Write some elements of communication.

Q.13 In English grammar, what are the several types of sentences? Give example of each.

Q.14 Complete the following on A3 Sheet

(i) Communication Cycle (Roll No. 1 to 10)

(ii) Signs used for non – verbal communication (Roll No. 11 to 20)

(iii) Mobile Apps (Roll No. 21 to 29)

हिंदी

प्रश्न 1 पाठ 'दो बैलों की कथा' तथा कबीर की 'सखिया व सबद' से 10-10 अति लघु उत्तरीय प्रश्न उत्तर करें।

प्रश्न 2 अनुच्छेद लेखन → नया सवेरा, नई सोच

प्रश्न 3 अनौपचारिक पत्र → अपने विदेश में रहने वाले मित्र को दिल्ली के दर्शनीय स्थलों का भ्रमण करने के लिए आमंत्रित करते हुए पत्र लिखें।

प्रश्न 4 (i) पाठ - 'इस जल प्रलय' के आधार पर लेखक की समाज सेवा पर प्रकाश डालिए।

(ii) पटना की बाढ़ में पिकनिक मनाने आए युवक - युवतियों के साथ कैसा बर्ताव हुआ और क्यों ?

प्रश्न 5 क्षितिज (गदय खंड)-

- (i) पाठ - 'दो बैलों की कथा' के आधार पर बताइए कि भारतवासियों को अमेरिका में क्यों नहीं घुसने दिया जाता था ?
- (ii) हीरा और मोती में ऐसी कौन सी गुप्त शक्ति थी, जो मनुष्य में नहीं होती ?
- (iii) सच्चे मित्रों की क्या पहचान होती है ? क्या हीरा - मोती सच्चे मित्र है ?
- (iv) 'दो बैलों की कथा' को ध्यान में रखते हुए सिद्ध कीजिए की एकता में शक्ति होती है ?

प्रश्न 6 क्षितिज (काव्य खंड)

- (i) कबीर के अनुसार ईश्वर कहाँ मिलता है और कहाँ नहीं मिलता है ?
- (ii) कबीर के अनुसार उच्चकुलीन व्यक्ति क्यों ऊँचा नहीं माना जाता ? उदाहरण सहित लिखिए।
- (iii) कबीर के अनुसार, काबा कब काशी हो जाता है ?

प्रश्न 7 रचनात्मक कार्य

- (i) अनुक्रमांक 1 से 9 तक - उपसर्ग परिभाषा, उपसर्ग से शब्द निर्माण, उपसर्ग व मूल शब्द अलग-अलग करना आदि को A3 सीट पर सचित्र करें
- (ii) अनुक्रमांक 9 से 18 - तक प्रत्यय परिभाषा, प्रत्यय से शब्द निर्माण, मूल शब्द में प्रत्यय अलग करना आदि सचित्र A3 सीट पर करें।
- (iii) अनुक्रमांक 19 से 29 तक - समास परिभाषा, भेद को सचित्र A3 शीट पर दर्शाइए।

प्रश्न 8 परियोजना कार्य

पाठ 'इस जल प्रलय में' प्राकृतिक आपदा के विषय में बताया गया है इससे संबंधित फिल्म 'केदारनाथ' को देखकर प्राकृतिक आपदा के भीषण रूप का वर्णन करें। प्रतिवर्ष देश में बाढ़ग्रस्त होने वाले क्षेत्रों का वर्णन करते हुए सचित्र परियोजना तैयार करें।

नोट:-

- (i) प्रश्न 1 से 6 तक कॉपी में करें।
- (ii) कक्षा में करवाए गए कार्य की दोहराई करें।