

**RAHUL MODEL PUBLIC SCHOOL**  
**Recognised Senior Secondary & Affiliated to CBSE**  
**Railway Road, Sadh Nagar-II, Palam Colony, New Delhi**

**SUMMER HOLIDAY HOMEWORK**

**CLASS – IX**

**ENGLISH**

- 1.Do 10 MCQ'S of each chapters The Fun They Had, The Road Not Taken, The Sound Of Music, Wind , The Lost Child and The Adventurous of Toto in English notebook.
- 2.Make a comics strip with dialogues in English. Do this in A3 size sheet.
  - a. The Fun They Had (Roll no. 1 to 10)
  - b. The Lost Child (Roll no. 11 to 20)
  - c. The Adventurous of Toto (Roll no. 21 to 29)
- 3.Do Evergreen Test Assignment (Grammar skill) Page no. 59 to 62
4. Do Evergreen Test Assignment (Reading skill) Page no. 17 to 19 and 29 to 31
5. Do Evergreen Test Assignment (Writing skill) Page no. 144,145
6. Solve PT-1 question paper in English notebook.

**SCIENCE**

**1. Multiple Assessment Activity**

**(10)**

Draw a well labelled diagram of the given topics assigned according to the given Roll No.

**Topic**

**Roll No.**

(i) Simple Distillation	1 to 4
(ii) Fractional Distillation	5 to 8
(iii) Sublimation Process	9 to 12
(iv) Plant Cell	13 to 16
(v) Animal Cell	17 to 20
(vi) Structure of Neuron	21 to 24
(vii) Types of Muscular Tissue	25 to 27
(viii) Types of Simple Permanent Tissue	28 to 31

2. Draw the concept map that should consists of pictorial as well as text according to your assigned Roll No.

(10)

**Topic**

**Roll No.**

(i) Fundamental unit of Life	1 to 5
(ii) Work and energy	6 to 10

- |                                    |          |
|------------------------------------|----------|
| (iii) Sound                        | 11 to 15 |
| (iv) Improvement in food resources | 16 to 20 |
| (v) Animal Tissue                  | 21 to 25 |
| (vi) Matter in our surrounding     | 26 to 31 |

3. Worksheet(to be done on A-3 size ruled sheet):-

#### **Section – A (3 marks questions)**

- (a) Differentiate between
- (i) Manure and Fertilizers
- (ii) Intercropping and Mixed cropping
- (iii) Rabi and Kharif Crops
- (b) What do you mean by Blue revolution, white revolution and yellow revolution
- (c) Define the term organic farming. Write its four advantages.
- (d) A girl running a race accelerate at  $2.5 \text{ m/s}^2$  for the first 4s of the race. How far does she travel in this time?
- (e) A motor bike running at  $90 \text{ km/h}$  is slowed down to  $54 \text{ kmh}^{-1}$  by the application of brakes, over a distance of 40m. If the brakes are applied with the same force calculate-
  - (i) Total time in which bike come to rest.
  - (ii) Total distance travelled by bike.

4. Solve PT-1 question paper in Science notebook. (5)

#### **Section – B (5 marks questions)**

- (f) (i) Using following data draw time-displacement graph for a moving object.

Time (s)	0	2	4	6	8	10	12	14	16
Displacement(m)	0	2	4	4	4	6	4	2	0

- Use the graph to find average velocity for first 4s, for next 4s and for last 6s.
- (ii) An electric engine has a velocity of  $120 \text{ kmh}^{-1}$ . How much distance will it travel in 30s.
- (g) What happens when-
  - (i) Dry apricots are left for sometime in pure water and later transferred to sugar solution.
  - (ii) a red blood cell is kept in concentrated saline solution.
  - (iii) The plasma membrane of a cell breaks down.
  - (iv) Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it.
  - (v) Golgi apparatus is removed from the cell.

#### **MATHEMATICS**

- 1. Solve PT-1 question paper in mathematics notebook.
- 2. (i) Write the algebraic identities on A-3 sheet. (Roll No. 1 to 10 IX B)
- (ii) Write the law of exponent on A-3 sheet. (Roll No. 11 to 20 IX B)
- (iii) Write the types of polynomial on A-3 sheet. (Roll No. 21 to 30)

3. Solve the assignment on Assignment Sheets-

- (i) Arrange  $\sqrt{3}$ ,  $\sqrt[3]{4}$ ,  $\sqrt[4]{5}$  in ascending order.
- (ii) If  $(4)^{2x-1} - (16)^{x-1} = 384$ , then find the value of x.
- (iii) Find the value of x, if  $2^{5x} \div 2^x = \sqrt[5]{2^{20}}$

(iv) If  $x = 4 - \sqrt{15}$ , find the value of  $(x + \frac{1}{x})^2$

(v) Find the value of:  $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \times \left[\left(\frac{25}{9}\right)^{-\frac{3}{2}} \div \left(\frac{5}{2}\right)^{-3}\right]$

(vi) Factorise:  $x^2 + \frac{x}{4} - \frac{1}{8}$

(vii) Factorise:  $7(x-2y)^2 - 25(x-2y) + 12$

4. Solve the following questions-

(i) If  $a = \frac{9^{n+1} x (3^{-n/2})^{-2} - 27^n}{(3^m \times 2)^3} = \frac{1}{729}$

(ii) If  $a = 8 + 3\sqrt{7}$  and  $b = \frac{1}{a}$ , what will be the value of  $a^2 + b^2$ ?

(iii) Let  $R_1$  and  $R_2$  be the remainders when the polynomials  $f(x) = x^3 + 2ax^2 - 5x - 7$  and  $g(x) = x^3 + x^2 - 12x + 6a$  are divided by  $(x + 1)$  and  $(x - 2)$  respectively.

If  $2R_1 + R_2 = 12$ , find the value of 'a'.

5. Do activity 7 and 8 in Lab Manual.

## SOCIAL SCIENCE

### Activity

1. Draw a colourful poster on the topic "Population Explosion" on A-3 size sheet.
2. Make a poster on the topic "Human Rights Day" on A-3 size sheet.
3. Write slogan on A-3 size sheet on the topic "Justice" or "Fraternity" or Democracy.
4. Draw a portrait of any one member of Constituent Assembly on A-3 size sheet.
5. Make a collage on the topic "Indian Constitution on A-3 size sheet.

### Assignment

6. Why are quality decisions a possibility in a democracy?
7. What was Estates General?
8. What are the legacy of French Revolution for the people of world?
9. What is the longitudinal and latitudinal extension of India? What is its importance?
10. Why is Indian ocean named after our country? Give three reasons.
11. Distinguish between Fixed, Working and Human Capital.
12. What are the different ways of increasing production on the same piece of land? Use examples to explain.

## **Project**

13. Do social project on the following topics-

Disaster Management

(Take up a case study and make your project report for eg.

-Delhi in seismic zone 4,

- Uttarakhand Floods)

### **General Instructions:**

The project must be handwritten, done on separate loose sheets neatly.

The file should contain the following:

(a) Name, class, section of the student on the cover.

(b) The file should have one page each for:

(i) Acknowledgement, Certificate

(ii) Preface, Index

(iii) Main Content

(iv) Bibliography

## **Map Work**

14. On the outline map of India, Identify and label the following:

(i) The states through which the Tropic of Cancer passes.

(ii) The Island groups of India

(iii) The Union Territories of India with capital

## हिंदी

प्रश्न 1 अनुच्छेद - लेखन(शब्द सीमा - 120 - 130 शब्द)

(12)

(i) पर्यावरण के बचाव हेतु छुट्टियों में एक पौधा लगाएं उसकी देखभाल करें। इस अनुभव के आधार पर "पर्यावरण की सुरक्षा" पर अनुच्छेद लिखें।

(ii) आदर्श - विद्यार्थी विषय पर अनुच्छेद लिखें।

प्रश्न 2 पत्र व ई - मेल लेखन

(10)

(i) अपने सखी या मित्र को 'ऑपरेशन सिंदूर' की सफलता के विषय में बताते हुए पत्र लिखिए।

(ii) आपका नाम विकेश गुप्ता है। आपका खाता पंजाब नेशनल बैंक में है और आपकी पासबुक खो गई है। इसकी सूचना देते हुए बैंक अधिकारी को ई - मेल लिखिए।

प्रश्न 3 अपठित गदयांश

(10)

अपनी व्याकरण की पुस्तक विभीर में से दो अपठित गदयांश व उनके प्रश्न उत्तर लिखें।

प्रश्न 4 पाठ 'इस जल प्रलय' के आधार पर निम्नलिखित प्रश्नों के उत्तर लिखिए-

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

(ii) बाढ़ आने पर लोगों ने जो व्यवहार किया उनमें से कौन सा व्यवहार आपको अनुचित लगा और क्यों?

प्रश्न 5 निम्नलिखित विषयों को अनुक्रमांक के अनुसार A - 3 सीट पर सचित्र करें-

(5)

उपसर्ग (1 से 10 अनुक्रमांक)

प्रत्यय (11 से 20 अनुक्रमांक)

समास (21 से 30 अनुक्रमांक)

**प्रश्न 6 बहुविविध क्रियाकलाप-**

(5)

- रसखान के पदों के आधार पर श्री कृष्ण की बाल - लीलाएं लिखिए और उनमें से किसी एक बाल लीला का सचित्र वर्णन करें। (A - 4 सीट पर)
- सामयिक परीक्षा - प्रथम को साफ सुंदर लिखाई में कॉपी में लिखें।

**नोट:**

- प्रश्न 1 से 4 तक अतिरिक्त सीट (Assignment sheets) पर करें।
- कक्षा में करवाए गए कार्य की दोहराई करें।

## **INFORMATION TECHNOLOGY**

1. Solve PT-1 question paper in notebook.

(5)

2. Do the following assignment in notebook.

(20)

(i) What is a Word Processor? List the names of some common Word Processors. Write any two features of a Word Processor.

(ii) What is the function of Undo and Redo?

(iii) Explain the Spelling and Grammar feature. Also write the different buttons present in the spelling dialog box.

(iv) What is Clone Formatting? How can we remove Manual Formatting?

(v) Write different options available for line spacing.

(vi) Write the steps-

(a) To Change background colour of page.

(b) To apply Bullets and Numbering

(vii) How can we merge and split a table.

(viii) Write down the step by step process to perform Mail Merge.

(ix) Write the various options to create a main document.

(x) How can we print merged documents?

3. Prepare a practical file on given topics as per Roll No.

(15)

<b>Topic</b>	<b>Roll No.</b>
(i) Digital Documentation	1 to 10
(ii) Electronic Spreadsheet	11 to 20
(iii) Digital Presentation	21 to 31

4. Draw on A-3 size sheet as per the Roll No.

(10)

<b>Topic</b>	<b>Roll No.</b>
(i) Signs used for Visual communication	1 to 10
(ii) LibreOffice Writer Window	11 to 20
(iii) Qualities of Self – Confident People	21 to 31