



RAO BALRAM PUBLIC SCHOOL

(RECOGNIZED & AFF CBSE) Gopal Nagar, Najafgarh, New Delhi-43

WINTER BREAK HOLIDAYS HOME WORK

Dear Parents,

We hope that children enjoyed their first spell in school as much as we enjoyed getting to know them. winter vacations are just round the corner, we would like our children to have a nice time and remain constructively busy. Teachers have made worksheets which are attractively designed to stimulate further interest in learning.



Class IX

Subject: English

General Instructions:

- 1) The work should be done neatly and in a systematic way.
- 2) The given questions are to be done in the English notebook.
- 3) Write questions along with the answers.

GRAMMAR AND WRITING (12)

1. Complete the tasks below as directed.

($\frac{1}{2}$ x 8=4)

For parts (i) to (vi), fill in the blank by choosing the most suitable option.

- i. The sky and the audience, lit up _____ the planes zoomed overhead, displaying the tricolour.
 - a. though
 - b. as
 - c. if
 - d. while

- ii. The Indian southern region _____ in the production of rich silk yarns.
 - a. has specialized
 - b. will specialized
 - c. specializes
 - d. specialize

- iii. The conversation with the student representative seemed to be slightly interrogative but comfortable. She _____ and I enjoyed it.
 - a. takes me on the tour of a school
 - b. takes me on a tour of the school
 - c. took me on a tour of the school
 - d. took me on the tour of a school

- iv. I can't find my keys in the house. They _____ be in the car.
 - a. ought to
 - b. must
 - c. can
 - d. will

- v. There was a strange light in the sky yesterday evening. I _____, but I may have seen a U.F.O.
 - a. don't know what it was
 - b. didn't knew what it was
 - c. don't knew what it was
 - d. didn't know what it was

- vi. _____ of the two contestants could reach at such a short notice, yet _____ the seats were occupied.
- Either, each
 - Any. none
 - Both, some
 - Neither, all

vii. **Find the error in the given statement.**

It has been rightly say that humans are social beings. We are the summation of our four closest friends.

ERROR	CORRECTION

viii. **Report the given conversation**

Park Ranger: *We've seen four elephants already and it is only our first day.*

Conservationist: *Whew! The recommended strategies must be working then.*

The Park Ranger congratulated the Conservationist and said that _____.

2. **Read the information given below and write a bio-sketch of Greta Thunberg, a climate activist, in around 100 words. (3)**

<i>Name</i> – <i>Birth</i> - <i>Parents</i> – <i>Sibling/s</i> <i>Birth</i> <i>Place</i>	<ul style="list-style-type: none"> • <i>Greta Tintin Eleonora Ernman Thunberg</i> • <i>3rd January, 2003</i> • <i>Svante Thunberg and Malena Ernman</i> • <i>Younger sister, Beata</i> • <i>Born in Swedish capital, Stockholm</i>
<i>Rise of fame</i>	<ul style="list-style-type: none"> • <i>credited with raising public awareness of climate change</i> • <i>Learned about climate change at age 8</i> • <i>Age 11-12 years, diagnosed with Asperger's syndrome, a form of autism.</i> • <i>In 2018, held the first - "School Strike for Climate"</i> • <i>Sparked world-wide protests – demand from politicians to act – every Friday – "Friday for Future"</i> • <i>Left school to focus on activism – father worried</i> • <i>Mr Thunberg says his daughter became "much happier" after she started campaigning.</i>
<i>Books</i>	<ul style="list-style-type: none"> • <i>No One Is Too Small to Make a Difference</i> • <i>The Climate Book : The Facts and the Solutions</i> • <i>Our House Is on Fire</i>
<i>Awards</i>	<ul style="list-style-type: none"> • <i>Been nominated for Nobel Peace Prize every year – 2019 to 2023.</i> • <i>Youngest-ever 'Person of the Year,' declared by Time magazine in 2019</i> • <i>In 2019, Right Livelihood Award, Amnesty International's Ambassador of Conscience Award</i>

3. *"Perseverance is not a long race, it's many short races one after another. Embrace the struggles, for they are the steps leading to triumph." - Walter Elliot*
You are Yelena Sharapova. Describe what you felt watching Maria striving to reach the pinnacle of success, despite the challenges she faced. (5)

LITERATURE (8)

4. **Answer the following in about 30-40 words.** (2x2=4)

- a) *What sacrifice did Behrman make for Johnsy?* (2)
b) *How did the author feel when he went to his new school after the fire accident?* (2)

5. **Answer the following in about 80-100 words.**

- a) *What similarities do you find in the lives of Santosh Yadav and Maria Sharapova?* (4)

Subject: Hindi

सामान्य निर्देशः—

- दिए गए सभी प्रश्नों के उत्तर हिंदी की उत्तर पुस्तिका में लिखिए।
- कार्य स्वच्छ, शुद्ध एवं स्पष्ट लेख में कीजिए।

खण्ड क 'व्याकरण'

निम्नलिखित प्रश्नों के उत्तर उचित विकल्प चुनकर दीजिए—

Pa`Sna 1 दिए गए अनुनासिक युक्त शब्दों में से सही शब्द कौन-सा होगा? 1

(क) चँबल (ख) आँच

(ग) पँकज (घ) सँसार

प्रश्न 2 'अत्यधिक' शब्द का सही संधि-विच्छेदशब्द-कौन सा है? 1(क) अत+अधिक(ख) अति+अधिक

(ग) अत+यधिक(घ) अती+अधिक

खण्ड ख 'पाठ्यपुस्तक'

निम्नलिखित प्रश्नों के उत्तर दीजिएः-

प्रश्न 3 मनुष्य की प्रकृति किस रूप में आंदोलित करती है? 'गीत -अगीत' कविता के आधार पर स्पष्ट कीजिए। 2

प्रश्न 4 महादेव भाईकी लिखावट की क्या विशेषताएँ थीं? 2

खण्ड ग 'लेखन कार्य'

प्रश्न 5 एक कलाकार और छात्र के बीच हुए संवाद को लगभग 100 शब्दों में लिखिए।

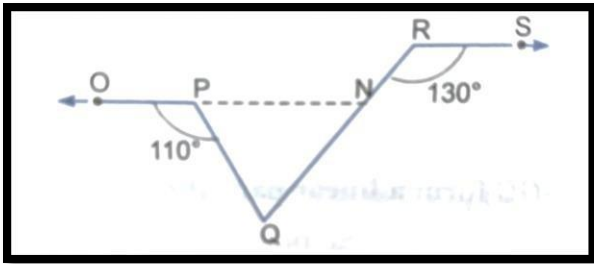
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Subject: Mathematics

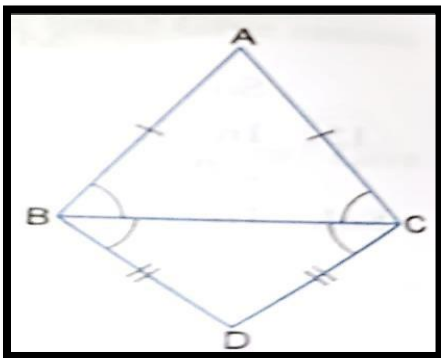
General Instructions:

- 1) The work should be done neatly and in a systematic way.
- 2) The given questions are to be done in the mathematics notebook.
- 3) Show the calculations in a rough column in front of answers.

Q1 In the given fig. If $OP \parallel RS$, $\angle OPQ = 110^\circ$ and $\angle QRS = 130^\circ$ what is the measure of $\angle PQR$?
(3)

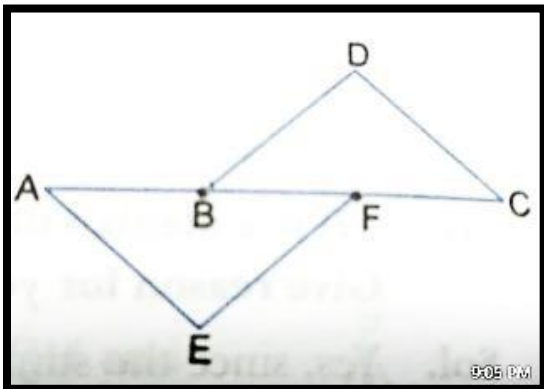


Q2 In the given fig. ABC and DBC are two Isosceles triangles on the same base BC . Show that, $\angle ABD = \angle ACD$.
(3)



Q3 State and prove Mid point theorem.
(3)

Q4 In given fig $BA = CF$, $EF = BD$ and $\angle AFE = \angle CBD$. Prove that $\triangle AFE$ is congruent to $\triangle CBD$.
(3)



Q5 Find the decimal expansions of $10/3$, $7/8$ and $1/7$.
(3)

Subject: Science

General Instructions:

- (1) The work should be done neatly and in a systematic way.
- (2) The given questions are to be done separately in the respective subject notebooks.
(Physics, Chemistry and Biology notebook).
- (3) Write questions along with the answers.
- (4) Answer the 02 marks questions in 30 to 50 words.
- (5) Answer the 03 marks questions in 50 to 80 words.
- (6) Answer the 05 mark question in 80 to 120 words.

Subject: Physics

- Q1. An object weighs 10 N when measured on the surface of the earth. What would be its weight and mass when measured on the surface of the moon? (2)
- Q2. A source of a wave produces 30 crests and 30 troughs in 0.3 seconds. What is the time period of the wave? (2)
- Q3. An object is thrown vertically upwards and rises to a height of 10 m. Calculate (i) the velocity with which the object was thrown upwards and (ii) the time taken by the object to reach the highest point. (3)
- Q4. A car falls off a ledge and drops to the ground in 0.5 s. Let $g = 10 \text{ m/s}^2$ (for simplifying the calculations). (3)
- (i) What is its speed on striking the ground?
 - (ii) What is its average speed during the 0.5 s?
 - (iii) How high is the ledge from the ground?
- Q5. (i) A cylinder of height 30 cm and radius 7 cm is immersed completely in a fluid of density $1.3 \times 10^3 \text{ kg/m}^3$. What is the buoyant force acting on it? (Take $g = 10 \text{ m/s}^2$)
- (ii) Show that universal gravitational constant is nothing but force of gravitation between two unit masses separated by unit distance. (5)

Subject: Chemistry

- Q1. Write two differences between an atom and a molecule. (2)
- Q2. Calculate the molecular mass of the following compounds. (Given atomic masses of Zn=65u, Na=23u, Cl=35.5u, C=12u, O=16u). (2)
- (i) ZnCl_2
 - (ii) Na_2CO_3
- Q3. (a) An element M shows variable valencies 1 and 2. Write the formulae of its oxides. (1)
- (b) An element forms an oxide A_2O_3 . (2)
- (i) What is the valency of the element?
 - (ii) What will be the formula of the sulphate of the element.
- Q4. (a) Define atomic mass. (1)
- (b) Write two differences between a cation and an anion. (2)
- Q5. (a) In a chemical reaction, two reactants A and B react and gives product C. The weight of A is 5g and the weight of B is 7g. Find the weight of the product C? (1+2+2=5)
- (b) The atomic mass of two elements are given below:

Oxygen=16u, Sulphur=32u

What is the ratio by mass of sulphur and oxygen in SO₂?

(c) Write the postulates of Dalton's Atomic Theory.

Subject: Biology

Q1. Why beans and lentils crop are desirable in crop rotation? (2)

Q2. "The shorter the duration of crops, the more economical is the variety". Justify this statement. (2)

Q3. Using the symbols given below make a diagrammatic representation of intercropping and mixed cropping. List any two points of difference between the mentioned cropping patterns.

Crop A -  Crop B -  (3)

Q4. Explain the benefits of biofertilizers and biopesticides in sustainable agriculture. (3)

Q5. Mention three different ways in which insect pests attack the crop plants. How can pests be prevented and what are their control measures? (5)

Subject: Social Science

General Instructions:

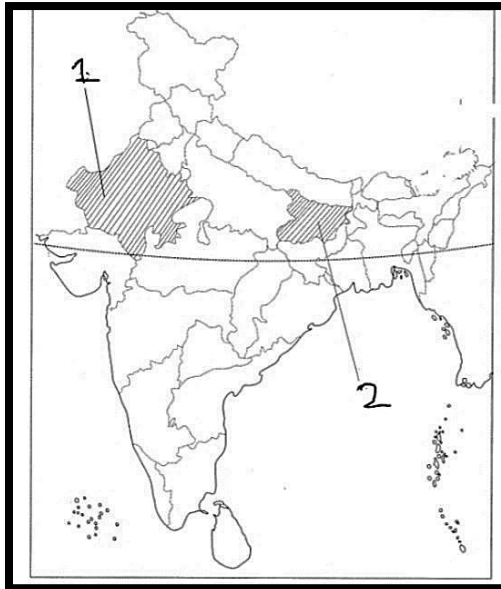
- The work should be done neatly and in a systematic way.
- The given questions are to be done in the respective social science notebooks.
- Write questions along with the answers.
- All questions are to be answered in 30 to 40 words.

History

- Q1. What were the main causes of deforestation in India during British rule? 2
- Q2. Name the three categories of forests as mentioned in the Act of 1878? Which species of trees were promoted for the building of ships or railways? 2
- Q3. How could English ships be built without a regular supply of strong and durable timber? 2
- Q4. How do Indian labour suffer at the British hands in the plantations? 2
- Q5. What do you know about Scientific forestry? 2

Geography

- Q1. Differentiate between the West flowing rivers and East flowing river. 2
- Q2. Where is Mawsynram located? Why does Mawsynram receive the highest amount of rainfall? 2
- Q3. Where are Evergreen forests found in India? Name any two regions. Write any two characteristics of these forests. 2
- Q4. Give the reasons for selecting longitude $82^{\circ}30'$ as the Standard Meridian of India. 2
- Q5. (I) Features are marked by numbers in the given political map of India, Identify these features with the help of the following information and write their correct names. (1x2=2)
1. A type of vegetation
 2. A type of vegetation



(II) On the political map of India, locate and label the following:

- (1) National Parks : Corbett, Kaziranga
- (2) Wildlife Sanctuaries : Sariska, Dachigam

Political Science

- Q1. What are Rights? What is the meaning of Fundamental Rights?* 2
- Q2. What was the reason given by America for imprisoning people at Guantanamo Bay? Discuss the role of Amnesty International.* 2
- Q3. Write a short note on Cultural and Education Rights.* 2
- Q4. Write any four features of the Right to Equality as a Fundamental Right.* 2
- Q5. Describe the features of Right against Exploitation.* 2

Economics

- Q1. What is the aim of the National Health Policy of India?* 2
- Q2. Define Human capital and human capital formation. Name any two sources of human capital formation.* 2
- Q3. Explain any four effects of unemployment on the overall growth of the economy.* 2
- Q4. How were the British policies responsible for the increase in poverty in India?* 2
- Q5. What are the indicators used by social scientists to understand poverty?* 2