



H.C.J. ACADEMY

(Affiliated to ICSE/ISC (10+2) Board, New Delhi)

Janaura, Deokali Bypass Road, Ayodhya 224001

Summer Vacation Homework 2024-25

Class- 9th

Date:- 18-May-2024

English –Literature

1. Who is Cassius ?
2. What do you know about foreteller ?
3. Who is Cinna ?
4. What do you know about Brutus ?
5. Who is Portia ? Write about her.

Project Work

1. Make a Project on four great tragedies of William Shakespeare.
- Or
2. Make a Chart of Roman tragedies.

English –Grammar

For all Students

Questions

(a) Thinking Skills

1. Write a self composed poetry / Story on the given topics with minimum (Poetry 4 Stanzas) (Story 250 Words)

- (i) My School my pride
- (ii) Books are my best friend.

(b) Writing Skills

2. You encountered two strange people. They were different from normal human beings but they were quite interesting and exciting write a story in 300 to 350 words narrating your experience with them.

(c) Reading Skills

Read the Newspaper daily and write only one news article under the given headlines like National, International, Sports, Glamour, Business and express yours views on it.

Hindi

प्र0:1 पत्थर की पूजा करने के विषय में कबीरदास जी का क्या विचार है ?

प्र0:2 'कबीर दास जी द्वारा लिखित पंक्ति 'क्या बहरा हुआ खुदाय' –
का आशय स्पष्ट कीजिए।

प्र0:3 कौन गरीब और देवता है ?

प्र0:4 कौन भूमि शयन कर रहा थी और क्यों ?

प्र0:5 विष्वेध्वर जी हतबुद्धि होकर खड़े क्यों रह गये ?

प्र0:6 विशेषण की परिभाषा तथा भेद लिखिए उदाहरण के साथ। अथवा पेरणाप्रद कोई कहानी लिखिए।

(चार्ट पेपर या कार्ड बोर्ड पर लिखें)

Math

Section (A)

1) Factorise: $4a^3b - 44a^2b + 112b$

2) Solve the simultaneous equations by cross multiplication method

$$X - 2y = 1; x + y = 4$$

3) Solve: $3p - 2q = 5, q - 1 = 3p$

4) If $a + b = 1$ and $a - b = 7$, find the values of

$$5(a^2 + b^2)$$

5) Express 0.001001001.... as a fraction in the simplest form.

Section (B)

1) Conduct a survey of a group of students and represent it graphically – height, weight, number of family members, pocket money, etc.

OR

2) To use flat cutouts to form cube, cuboids and pyramids to obtain formula for volume and total surface area.

Physics

Q.1 Derive Equation of motion by Graphical Method .

Q.2 Define contact or non-contact forces.

Q.3 The circular scale of a screw gauge has 50 divisions. Its spindle moves by 2mm on sleeve scale when given four complete revolutions. Calculate (i) pitch (ii) least count.

Q.4. What is the approximate diameter of the Earth around the Sun.

(i) in AU

(ii) in SI unit ?

Q.5 A truck running at 90km/hr is brought to rest over a distance of 25m. Calculate the retardation and time for which brakes are applied.

"PROJECT-WORK"

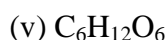
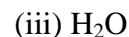
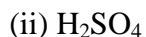
Plot the (s-t), (v-t) and (a-t) graph for a uniform linear motion in different states on a chart paper.

Chemistry

Questions

1. Children should categorize acidic and basic radicals and Decorate it by making a chart on paper.

2. (i) Calculate molecular mass of compounds.

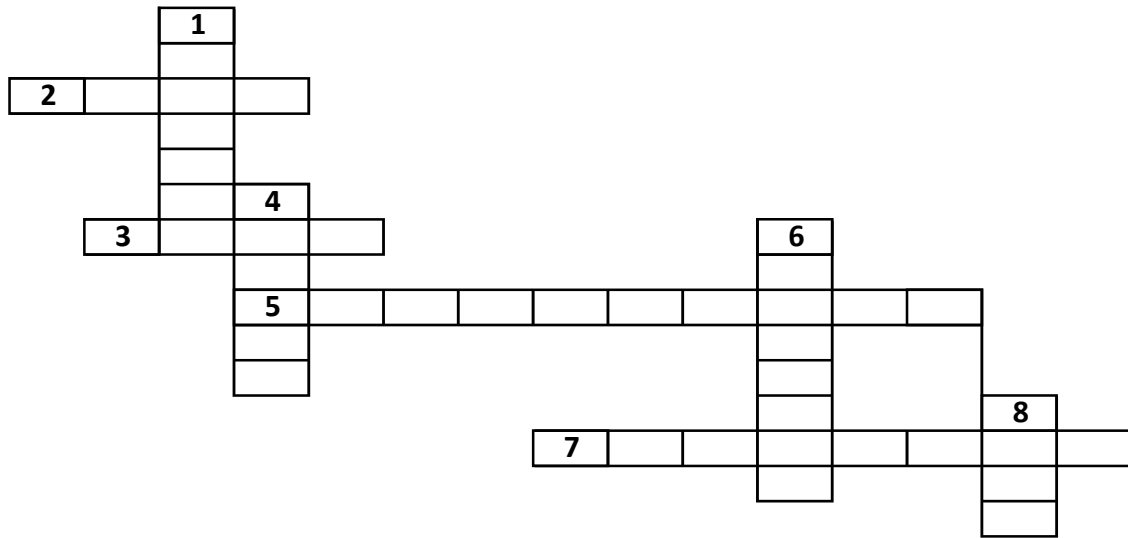


(ii) Complete the following crossword puzzle by using the Name of the chemical elements. Use the data given in table

2	The element used by Rutherford during his α Scattering Experimental	1. A white lustrous metal use for making ornaments and which tends to get tarnished black in the presence of moist air.
3	An Element which forms rust on Exposure to moist air	4. Both brass and bronze are alloys of the Elements.
5	A Very Reactive non-metal Stored under water,	6. The metal which exists in the liquid State at room Temperature

7 Zinc metal when treated with dilute hydrochloric acid produced a gas of this elements which when tested with burning splinter produced a pop sound.

8. An Element which symbol Pb.



Biology

Q. 1 Do you think Biology can help in further increasing the yield of food? If so, how

Q. 2 Differentiate between the following pairs of term

- (a) Protoplasm and cytoplasm
- (b) Centrosome and chromosom
- (c) Prokaryotic and Eukaryotic

Q.3. Explain the plant tissue and Animal tissue

Q .4 Differentiate plant cell and animal cell with diagram

Q .5 why are the cells generally of a small size

Project work - Pollution

Format of the Project

- (i) Content
- (ii) Introduction
- (iii) Presentation (graphs, tables, charts, newspaper cuttings, diagrams, photographs, statistical analysis if relevant)
- (iv) Conclusion/ Summary
- (v) Bibliography

History & Civics

1. Imagine that you met a person belonging to the Harappan civilization you asked him about the characteristic features of society prevalent during that era from the reply given by him which feature of society during the Indus valley civilization do you think have continued till today?
2. The vedic age laid the foundation of Indian cultural civilization to you agree with this view point? Give reason to support your answer.
3. Write about Ashoka and what he had done for his Empire.
4. Write some points about the medieval India and its culture.
5. Write on the four Vedas and its teaching.

Q2. Ancient Civilizations Scrapbook Create a digital scrapbook focusing on an ancient civilization of your choice. Gather images, maps, and descriptions to illustrate aspects like daily life, culture, architecture, and innovations.

OR

Fictional diaries: Write a diary entry from the perspective of a person living through a significant historical event. How would they describe their daily life and the challenges they faced?

Geography

Q.1 What is twilight ? How does it Occur ?

Q.2 Draw a neat Diagram to show the motion of the Earth ?

Q.3 What are effect of Rotation of Earth

Q.4 Define Aphelion and Perihelion ? With example.

Q.5 Differentiate between.

a small circle and Great Circle

Q.2 (A) Project work:-

Earth quakes”

Introduction –

Causes –

Effect –

Management and mitigation –

Distribution of Earthquakes. –

Computer Science

Qus-1 Write the output of the following codes.

```
class Java {  
public static void main ( String args [ ] )  
{  
System.out.println("Harshit Gupta");  
System.out.println("Roll No- 13");  
}  
}
```

Qus-2 Define polymorphism with an example.

Qus-3 write the example of procedura oriented language.

Qus- 4 which operator is used to compare two values for equality in Java?

(A) == (B) =

(C) != (D) <=

Qus-5 which of the following is used to declare a constant in Java?

(A) Const (B) static

(C) let (D) Final

PROJECT WORK

Make creative model for network security system.

Physical Education

- 1- Draw the diagram of ball and socket joint.
- 2- draw the microscopic structure of bone.
- 3- explain various types of movement around the synovial joints.
- 4- Drishti was told by teacher to speak different type of movements possible with example from body .
 - a) How many basic movements would Drishti speak?
 - b) What moments she should demonstrate to show selection and extension?

Project Work:

- 1- draw a diagram showing the dimension of playing field from one of these games on cardboard or chart with all measurement
 - a) Basketball
 - b) Volleyball
 - c) Cricket

Economics

- A. All questions are compulsory.
1. Write the difference between micro and macroeconomics.
 2. Explain Robbin's definition of economics.
 - 3 Explain the three categories of producers primary secondary and tertiary.
 4. Explain the concept of marginal utility with the help of an example.
 5. Point out the main characteristics of utility.

B)Project work:

Do this project work on the chart paper.

Topic - scarcity definition , features and criticism of scarcity definition.

Commercial Studies

- Q.1 Define Business
- Q.2 Define Industry and its types
- Q.3 Explain the Profit and Non Profit organization
- Q.4 Write a short not on Commerce
- Q.5 Define the term Assets

PROJECT

Find out the profit or loss , Assets and Liabilities of your own Family business