



# SACRED HEART SCHOOL

(Affiliated to CBSE up to +2, Delhi, School No. 66417, Affiliation No. 3430224)  
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## Holidays Homework of Class – IX

### (Holidays Homework to be done in Class work/Homework note-book)

#### **Subject: ENGLISH**

1. Prepare a project file on your favourite poet. Write his bio- sketch, major works and achievements and also write the central idea of one of his poems.

2. Article writing (Word limit – 150 to 200 words)

(1) Importance of being honest

(2) Impact of interest.

#### **Subject: HINDI**

1 पिछले एक साल में क्या खोया और क्या पाया विषय पर अपने विचार लिखें।

2 वर्ष 2024 से 'आपकी अपेक्षा' विषय पर लघु निबन्ध लिखें।

#### **Subject: SANSKRIT**

Jatayo Shauryam पाठ में 'सीता हरण' का दृश्य प्रस्तुत करते हुए रावण जटायु में हुई बातचीत को 250 शब्दों में लघु निबंध लिखें। दृश्य को स्पष्ट एक सुंदर चित्र बनाकर करें।

#### **Subject: CHEMISTRY**

1. Convert the following temperatures to Celsius scale: (a) 300K (b) 573K.

2. Convert the following temperatures to Kelvin scale: (a) 25°C (b) 373°C.

3. Which of the following will show "Tyndall effect"?

(a) Salt solution (b) Milk .

4. Which of the following are chemical changes?

(a) Rusting of iron (b) Freezing of water.

5. Which of the following symbol of an element is incorrect?

(a) Iron (Ir) (b) Gold (Au) .

6. Choose the isotopes from the following nuclei: (i)  $8p+8n$  (ii)  $8p+9n$  (iii)  $9p+8n$ .

7. Why does steam produce more severe burns on the skin as compared to boiling water?

8. Why is air considered to be a mixture and not a compound?

9. Which postulate of Dalton's atomic theory is the basis of law of conservation of mass?

10. What are valence shell and valence electrons?

11. Define the terms: (a) Isotopes (b) Isobars.

12. Write the names of three elementary particles which constitute an atom?

13. What is meant by the term chemical formula? Write the chemical formula of Aluminium oxide.

14. Explain the Bohr's model of an atom and draw a sketch of Bohr's model of an atom with three shells.

#### **Subject: BIOLOGY**

1. Explain the fluid mosaic model related Plasma membrane.

2. Explain Mitochondria , golgi bodies & chloroplast with suitable diagram.

3. Explain parenchyma, phloem , blood and nervous tissue with suitable diagram.

#### **Subject: PHYSICS**

1. What is echo? Write conditions to get echo with proper figure?

2. Find the relation among speed of sound, wavelength and frequency of sound wave.

3. Explain characteristics of sound (1) pitch, (2) loudness (3) quality

#### **Subject: MATHS**

1. Make a mind map of

Circle, surface area and volume,

Quadrilateral, statistics

Prepare it as a project file.

2. Write your all expenses in a month and represent it on graph of various kind (e.g:-bar chart, histogram, Pie chart/ area chart)

#### **Subject: SOCIAL SCIENCE**

ELECTION IN INDIA

• Analyse the general election results or elections held in a State for Vidhan sabha.

• What were the emerging trends in the voting patterns?

• Read a few manifestos of political parties – draft a manifesto of your own and design an election symbol.

#### **Subject: IT**

1. Prepare a spreadsheet of 20 students marks statements. Also apply pie chart.

2. Prepare a spreadsheet of monthly expenditure of your father income. Also apply Pie chart.