

PM SHRI KENDRIYA VIDYALAYA SEONI

HOLIDAY HOMEWORK

SUMMER VACATION

CLASS – IX

SOCIAL SCIENCE

- 1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)**
- 2. Write about on a local historical place nearby you.**
- 3. Write a paragraph on World Environment Day (5 June).**
- 4. “Democracy is considered better than other forms of government.” Justify the statement.**
- 5. Explain the scope of Social Science by describing Geography, History, Political Science, and Economics, and show how they overlap in real life.**
- 6. Write about the features of democracy.**
- 7. Explain the major causes of floods in India and suggest effective flood management measures.**
- 8. Describe the major seasons of India and explain the climatic conditions associated with each season.**
- 9. What are the main functions of the Election Commission of India?**
- 10. What are the challenges to free and fair elections in India?**
- 11. Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.**
- 12. Write and learn the ‘Preamble’ of the Indian Constitution.**

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AI

CLASS IX

HOLIDAY HOMEWORK

Q1. Answer the following questions in detail:

1. Define Artificial Intelligence. Explain its importance in today's world.
2. Explain any four applications of AI in daily life.
3. What are the advantages and disadvantages of Artificial Intelligence?

Q2. Explain the terms:

- Data
- Algorithm
- Machine Learning
- Neural Network

Q3. Case Study Activity -Read about any ONE AI-based technology/application such as:

- Self-driving cars
- Facial recognition
- AI chatbots
- Smart assistants
- Recommendation systems

Prepare a report including:

- Introduction
- Working process
- Uses
- Benefits
- Risks/limitations
- Conclusion

(Word Limit: 300–400 words)

Note – do homework in the notebook.

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Summer Holiday Homework

Class IX

Subject: - Biology

Write down the answers of the following questions in your home work note book.

- What is a unicellular organism?
- Name the largest cell.
- What is the function of ribosomes?
- Which organelle is called the “suicide bag”?
- What is plasmolysis?
- Define diffusion.
- What is the main function of vacuole?
- Name the cell organelle that contains chlorophyll.

- Explain the structure of the cell membrane.
- What is the difference between smooth and rough endoplasmic reticulum?
- Why are lysosomes called “suicide bags”?
- Write any three functions of Golgi apparatus.
- Explain osmosis with an example.
- Differentiate between diffusion and osmosis.
- What is the importance of nucleus in a cell?
- Write two differences between prokaryotic and eukaryotic cells.

- Describe the structure and functions of mitochondria.
- Explain the structure of a plant cell with a neat labeled diagram.
- Compare plant and animal cells in detail.
- Explain the process of osmosis with diagram.
- Describe various cell organelles and their functions.

Diagram-Based Questions

- Draw and label a plant cell.
- Draw and label an animal cell.