

HOLIDAY HOMEWORK 2024-25

ENGLISH

CLASS IX

- 1. Prepare your Portfolio for the session 2024-25.*
- 2. Prepare a brochure on tourism in Andaman and Nicobar/ Lakshadweep. It should include photographs of different tourist destinations, places to visit and importance of each (in bullet points). The best brochures will be displayed on the class display boards.*
- 3. Revise the syllabus covered in April and May.*
- 4. Create a Vocabulary Journal with advanced words and their definitions. Use these words in sentences to demonstrate their meanings.*
- 5. Select a famous children's author and prepare a presentation on his life and popular works.*
- 6. Choose a novel or a book from the English literary canon and write a book review.*

ग्रीष्मकालीन गृहकार्य

कक्षा- नौवीं

विषय –हिंदी

1. निम्नलिखित में से किसी एक के जीवन पर आधारित परियोजना कार्य तैयार करें-
(क) संत कबीर दास जी
(ख) मुंशी प्रेमचंद जी
(ग) महादेवी वर्मा जी
2. समसामयिक समस्याओं जैसे कुपोषण , बेरोजगारी, स्वच्छता, शिक्षा अभियान आदि से संबंधित खबरों व चित्रों से एक कोलाज बनाइए व समस्या निवारण हेतु पांच उपाय सुझाएं।
3. प्रथम सामयिक पाठ्यक्रम से एक प्रश्नपत्र तैयार करें।
4. 'विद्यालय मैगजीन ' के लिए किसी भी विषय पर अपना एक लेख लिखिए ।
5. लगभग प्रतिदिन आधा घंटा हिंदी समाचार देखें और कम से कम 10 सर्वश्रेष्ठ समाचारों को लिखें।
6. 'ल्हासा की ओर' आठ के आधार पर आप अपनी यात्रा का वर्णन करो जिसमें यात्रा के सभी पहलुओं को समेटा गया हो।

HOLIDAYS HOME WORK

CLASS IX MATHEMATICS

Q1. The product of any two irrational numbers is :

- a. always an irrational number b. always a rational number
c. always an integer d. sometimes rational, sometimes irrational

Q2. Which of the following is not equal to $\left[\left(\frac{5}{6}\right)^{\frac{1}{5}}\right]^{\frac{1}{6}}$:

- a. $\left(\frac{5}{6}\right)^{\frac{1}{5 \cdot 6}}$ b. $\frac{1}{\left[\left(\frac{5}{6}\right)^{\frac{1}{5}}\right]^{\frac{1}{6}}}$ c. $\left(\frac{6}{5}\right)^{\frac{1}{30}}$ d. $\left(\frac{5}{6}\right)^{\frac{1}{30}}$

Q3. The number of rational numbers between $\sqrt{3}$ and $\sqrt{5}$ is :

- a. one b. two c. three d. infinitely many

Q4. The arrangement of $\sqrt{5}, \sqrt{2}, \sqrt{3}$ in ascending order is :

- a. $\sqrt{2}, \sqrt{3}, \sqrt{5}$ b. $\sqrt{5}, \sqrt{3}, \sqrt{2}$ c. $\sqrt{2}, \sqrt{5}, \sqrt{3}$ d. $\sqrt{3}, \sqrt{2}, \sqrt{5}$

Q5. Value of $\sqrt[4]{(81)^{-2}}$ is :

- a. $\frac{1}{9}$ b. $\frac{1}{3}$ c. 9 d. $\frac{1}{81}$

Q6. The product $\sqrt[3]{2} \cdot \sqrt[4]{2} \cdot \sqrt[12]{32}$ equals :

- a. $\sqrt{2}$ b. 2 c. $\sqrt[12]{2}$ d. $\sqrt[12]{32}$

Q7. Value of $(256)^{0.16} \times (256)^{0.09}$ is :

- a. 4 b. 16 c. 64 d. 256.25

Q8. Rationalize the denominator of $\frac{4}{2 + \sqrt{3} + \sqrt{7}}$, $\frac{2}{\sqrt{3} + \sqrt{5} + \sqrt{15}}$ and $\frac{1}{\sqrt{3} + \sqrt{7} + \sqrt{21}}$.

Q9. If $X = \frac{1}{2+\sqrt{3}}$ Find $X + \frac{1}{X}$, $X - \frac{1}{X}$, $X^2 + \frac{1}{X^2}$ and $X^2 - \frac{1}{X^2}$

Q10. How many rational numbers are between two rational numbers?

Q11. Is every irrational or rational number a real number?

Q12. Write the value of $1.999\dots$ in the form $\frac{p}{q}$, where p, q are integers, $q \neq 0$.

Q13. Write the rationalising factor of $\frac{1}{\sqrt{7}-\sqrt{4}}$.

Q14. Find the value of $(81)^{0.16+0.09}$.

Q15. Find the value of $(256)^{0.16} \times (256)^{0.09}$

Q16. Evaluate: $\left(\frac{1}{2}\right)^5 \times \left(\frac{-2}{3}\right)^4 \times \left(\frac{3}{5}\right)^{-1}$

Q17. Simplify: $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt{4} + \sqrt{225}$

Q18. Simplify: $\frac{1}{(2+\sqrt{5})} + \frac{1}{(\sqrt{5}+\sqrt{6})} + \frac{1}{(\sqrt{6}+\sqrt{7})} + \frac{1}{(\sqrt{7}+\sqrt{8})}$

Q19. Simplify: $\frac{7\sqrt{3}}{\sqrt{10}+\sqrt{3}} - \frac{2\sqrt{5}}{\sqrt{6}+\sqrt{5}} - \frac{3\sqrt{2}}{\sqrt{15}+3\sqrt{2}}$

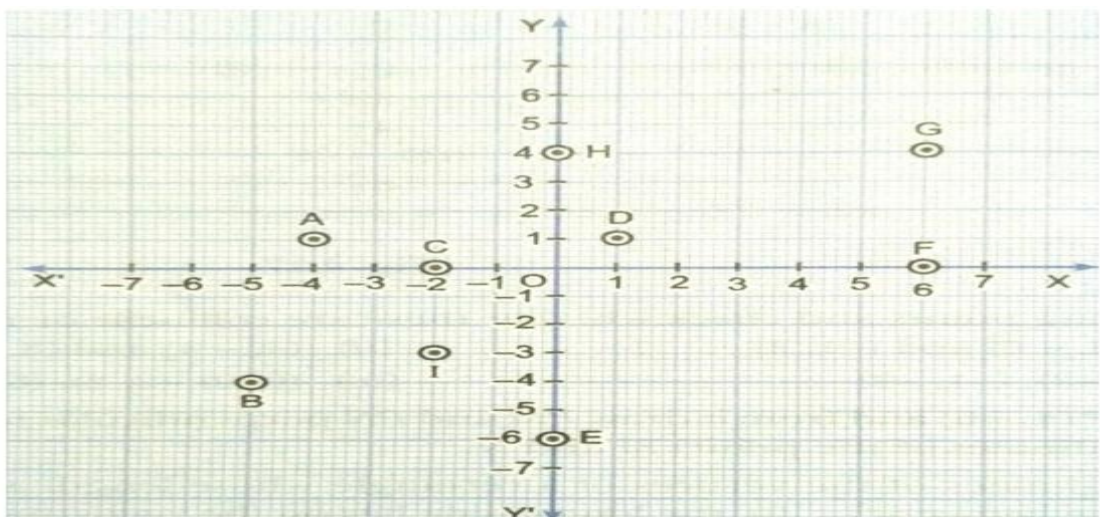
Q20. If $a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $b = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$, then find the value of $a^2 + b^2 - 5ab$.

Q21. If $a = 5 + 2\sqrt{6}$ and $b = \frac{1}{a}$ then what will be the value of $a^2 + b^2$

Q22. If $a = 9 - 4\sqrt{5}$, then find the value of $a - \frac{1}{a}$.

Q23. If $\left(\frac{3}{4}\right)^6 \times \left(\frac{16}{9}\right)^5 = \left(\frac{4}{3}\right)^{x+2}$, find the value of x.

Q24.



i) From the given figure, write

- a) the coordinates of the points B and F.
- b) the point identified by the coordinates (1, 1)
- c) the abscissa of the points D and H.
- d) the ordinates of the points A and C.
- e) the quadrant in which points B and I lie.
- f) the perpendicular distance of the point G from the x-axis.
- g) the perpendicular distance of the point I from the y-axis.
- h) the point whose perpendicular distance from y-axis is 2 units.

SCIENCE HOLIDAY HOMEWORK

SUBJECT – SCIENCE

CLASS- IX

I. ART INTEGRATION ACTIVITY:

- Depict any one of the following artistically in 3 Dimension:

Animal cell / Plant cell / Prokaryotic cell/Mitochondria/ Chloroplast/Eukaryotic Nucleus

2. RESEARCH WORK

Write about Mangrove Forest in Andaman and Nicobar Island and in Lakshadweep Island covering following points

- What do you mean by Mangrove Forest?
- What are the salient features of Mangrove?
- What is the significance of Mangrove?
- How much of the area covered with Mangroves in Andaman and Nicobar and Lakshadweep Island?
- What are the challenges with Mangrove conservation?
- Discuss the causes of depletion of mangroves and explain their importance in maintaining coastal ecology.

3. ASSIGNMENT

Give reason:

- The skin of your finger shrink when you wash clothes for a long time.
- After adding salt, vegetables release water.
- A person takes concentrated solution of salt, after sometime, he starts vomiting.
- Plant cells have large sized vacuole.
- We feel comfortable wearing cotton clothes on a hot summer day.
- People sprinkle water on the roof after a hot sunny day.
- It takes longer time to dry wet clothes in humid weather.
- Trees acquire more leaves during summer.
- We feel comfortable under a fan when we are perspiring.
- Sugar crystals dissolve faster in hot water than cold water.
- Sponge though compressible is a solid.
- Water as ice has a cooling effect, whereas water as steam may cause severe burns.
- We get the smell of incense stick even while sitting in the other room.
- Distance covered cannot be zero but displacement can be zero.
- For safety we must wear seat belts while travelling.
- We tend to fall forward when the bus/metro suddenly applies break.

Do the written work in A4 size sheets.

Your work will be assessed on the basis of handwriting, presentation, neatness, indexing, and completion.

Jain Bharti Mrigavati Vidyalaya

Holiday Homework

Subject- Social Science

Class- IX (2024-25)

I. Prepare a project report on the topic- 'Disaster Management'.

Outline of the project

- Introduction
- Types- Natural and Human induced
- Causes and mitigation
- Rising frequency of human induced disasters (current examples should be given due importance)
- Importance of awareness in the mitigation of disasters
- Technology and disaster management
- Maps

Important Instructions

While preparing the project, the points to be kept in mind are:

- The project report should be handwritten.
- Use A4 size sheets.
- Compile the work in a folder provided by school.
- Page limit- 15-20 sheets.
- Project should have: cover sheet, index, introduction, conclusion, acknowledgement and bibliography/references.
- The cover sheet of the project should have the following details:
 - i. Theme of the Project
 - ii. Name
 - iii. Class and Section
 - iv. Subject
- Use maps, pictures, diagrams and relevant data for illustration.

□ The collected data should have a reliable source and that should be mentioned with it.

□ Use eco-friendly products for the project.

Revise all the chapters done in the class.

Map Work:-

Outline Political Map of France (For locating and labelling / Identification)

- Bordeaux
- Nantes
- Paris
- Marseilles

Outline political map of the World. Locate/label/identify Major countries of First World War: Central Powers: Germany, Austria-Hungary, Turkey (Ottoman Empire).

Allied Powers – France, England, Russia and USA

Outline Political Map of World. Locate/label/identify Major countries of

Second World War Axis: Powers – Germany, Italy, Japan Allied Powers – UK, France, Former USSR, USA

GEOGRAPHY (Outline Political Map of India)

- **India-States with Capitals, India's Neighbours, Tropic of Cancer, Standard Meridian (Location and Labelling)**
- **Major Physiographic Divisions – Himalayan Mountains, Northern Plains, Peninsular Plateau, Indian Desert, Coastal Plains, Islands.**
- **Mountain Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats**
- **Mountain Peaks – K2, KanchanJunga, AnaiMudi**
- **Plateau - Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau**
- **Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)**
- **Rivers: (Identification only) *The Himalayan River Systems*-The Indus, The Ganges, and The Satluj *The Peninsular Rivers*-The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi**

- **Lakes: Wular, Pulicat, Sambhar, Chilika**
- **Vegetation Type: Tropical Evergreen Forest, Tropical Deciduous Forest, Thorn Forest, Montane Forests and Mangrove- For identification only**
- **National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas**
- **Bird Sanctuaries: Bharatpur and Ranganthitto**
Wild Life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (Location and Labelling)

ग्रीष्मावकाशार्थं गृहकार्यम्

कक्षा - नवमी

विषयः - संस्कृतम्

सत्रम् - 2024-25

निर्देशः -

- सर्वाणि उत्तराणि संस्कृतेन एव लेखनीयानि ।
- कार्यं संस्कृत-पञ्जिकायां लेखनीयम् ।
- लेखने शुद्धता स्यात् ।

क अधोलिखित-पदैः एकैकं वाक्यं रचयत -

लिखामि, नमन्ति, सर्वे, भारतम्, जानामि, वदति, गायन्ति, गृहकार्यम्, पुस्तकम्, रामायणम्, सूर्यः, जलम्, संस्कृतम्, विद्यालयः, खेलसि, लेखनी, धनम्, ईश्वरः, महाभारतम्, पाठयति, गृहम्, यानम्, देशे, अध्ययनम्, मित्रम्, दूरवाणीयन्त्रम्, रेलयानेन, पृच्छामि, बालकस्य, कृष्णसर्पः

ख अधोलिखितानि धातुरूपाणि निर्देशानुसारं लिखत -

गम्, अस्, कृ, खाद्, पा, दृश्, स्था (लट्-लोट्-लृट्-लङ्-लकारेषु)

ग अधोलिखितानि शब्दरूपाणि निर्देशानुसारं लिखत -

नदी, मातृ, पितृ, अस्मद्, युष्मद्, तत्- त्रिषु लिङ्गेषु, एतत्- त्रिषु लिङ्गेषु, किम्- त्रिषु लिङ्गेषु

घ स्वपरिचयं दशसु वाक्येषु लिखत ।

ङ कानिचित् पञ्च चित्राणि स्थापयित्वा प्रत्येकं चित्रस्य पञ्चसु वाक्येषु वर्णनं कुरुत ।