

NORTH-EX PUBLIC SCHOOL
(Senior Secondary, Affiliated To CBSE)
School Block, Jain Nagar, Sector-38, Rohini, Delhi – 81
Winter Holiday Homework, 2025-26
Class – IX

Social Studies

- Q1)What is poverty?
Q2)Explain the major causes of poverty in India.
Q3)What is population density?
Q4)Describe the distribution of population in India.
Q5)Describe the law-making process in India.
Q6)Explain any four features of Nazi ideology.
Q7)Describe global poverty trends.
Q8)Draw and explain the process 'a day in the life of the Lok sabha'.
Q9). Students need to draw a world map in a chart paper and trace the course of World War I. The place(country) from where War broke out and which places and countries got involved in the war from the period of 1914 to 1918.
Q10). Students need to draw a world map in a chart paper and trace the course of World War II. The place(country) from where War broke out and which places and countries got involved in the war from the period of 1939 to 1945.
Maintain the project file neatly and be ready for viva.

Hindi

- प्रश्न 1. जलियांवाला बाग में कौन-सी घटना घटी थी? विस्तारपूर्वक बताइए।
प्रश्न 2. सूर्यमंडल में नौ ग्रह हैं। इनका चित्र सहित वर्णन कीजिए।
प्रश्न 3. महादेव देसाई के जीवन से आपको क्या प्रेरणा मिलती है? अपने शब्दों में लिखिए।
प्रश्न 4. भारत के मानचित्र में निम्नलिखित स्थानों को दर्शाइए-
1. अहमदाबाद
2. जलियांवाला बाग (अमृतसर)
3. काला पानी (अंडमान)
4. दिल्ली
5. शिमला
6. उत्तर प्रदेश
7. बिहार
8. पंजाब
प्रश्न 5. उपसर्ग व प्रत्यय युक्त 10-10 शब्द लिखिए तथा उनका विग्रह कीजिए।
प्रश्न 6. स्वर संधि के भेदों के पांच पांच उदाहरण लिखिए व संधि विच्छेद कीजिए।
प्रश्न 7. आपके विद्यालय में पिछले दिनों वार्षिकोत्सव मनाया गया। इसका वर्णन करते हुए मित्र को पत्र

लिखिए।

प्रश्न 8. दिन प्रतिदिन बढ़ते वायु प्रदूषण की समस्या पर बातचीत करते हुए तो व्यक्तियों के बीच संवाद लिखिए।

प्रश्न 9. 'नई सदी का भारत'; विषय पर अनुच्छेद लिखिए।

प्रश्न 10. सर्दियों के मौसम से संबंधित एक चित्र बनाइए तथा उसका वर्णन कीजिए।

Mathematics

1. The radius of hemispherical balloon increases from 6cm to 12cm as air is being pumped into it . Find the ratio of their surface areas .
2. How many metres of cloth , 5m wide will be required to make a conical tent if the radius of their base is 7m and height is 24m?
3. Find the ratio of the curved surface areas of two cones if their diameter of the base are equal and slant heights are in the ratio 4:3.
4. There are two cones . The ratio of their radii are 4:1. Also slant height of the second cone is twice that of the former. Find the relationship between their CSA.
5. If the volume and the base area of a right circular cone are 48π and 12π respectively , then find the height of the cone.
6. How many litres of milk can a hemispherical bowl of diameter 10.5 cm hold?
7. The volume of a right circular cone is 100π and its height is 12 cm. Find curved surface area?
8. Form a table for the formulae of surface area and volume of cone and sphere.
9. A cone is 8.4 cm high and the radius of its base is 2.1 cm. it is melted and recast into a sphere . Find the radius of the sphere.
10. Complete lab activities in practical files (5,26, 28,32,33).

English

1. Assume yourself to be the Happy Prince and write the diary entry of the day when his statue was raised and he saw the misery of the poor people of his city in about 100-120 words.
2. Write a paragraph on, 'Technology in Education'.
3. Write a short story in 200 – 250 words, with the help of the cues given below. Give a suitable title to the story.

Satish was standing on the balcony watching the last rays of the Sun. Loud and angry voices in the street below distracted his attention. He ran down the stairs to see what had happened

...

4. Write a story in 150-200 words with the help of the following outline. Give it a suitable title also. Bunya was a foolish boy, who was an attention seeker. He was a woodcutter and would go deep into the jungle to cut trees. One day he wanted to do an act of mischief. He shouted at the top of his voice, "There's a tiger, tiger, there's a tiger"
5. Imagine that you recently went to Rishikesh for 2 days. You did river rafting with your cousins. You also learned tips on river rafting. Write a diary entry in 100-150 words.
6. You went on a pilgrimage to Haridwar with your family. Describe the trip.
7. Read the following dialogue between a mother and her son. Complete the paragraph that follows by filling in the gaps appropriately. (2012)

Marie: Did you see my new umbrella? Isn't it fine?

Tony: Yes, it is! Did you buy it from the mall?

Marie: No, your father has brought it for me.

Marie asked her son Tony (a) and she wanted to know whether it was a fine one. Tony agreed and asked his mother (b) His mother replied in the negative and added that (c)

8. Garima: So, after a decade in the industry, are you truly 'satisfied'?

Karan: I love the film industry. It has its flaws though.

Garima: What do you mean by this statement?

Karan: We are a bunch of competitive, ambitious, sometimes petty people. But the passion cements us together.

Garima asked Karan if after a decade in the industry (a) _____. Karan told her (b) _____ although it had its flaws. Garima then enquired (c) _____.

Karan explained that they were a bunch of competitive, ambitious, sometimes petty people but the passion cemented them together.

9. According to the prevailing rate, two dozen _____ rupees one hundred.

A costs

B cost

C costing

D costed

10. The Council _____ made its decision.

A have

B have had

C has

D having

Science

1 The longitudinal waves travel in a coiled spring at a rate of 4 m/s. The distance between two consecutive compressions is 20 cm. Find: (i) Wavelength of the wave (ii) Frequency of the wave.

2 (a) When we put our ear to a railway line, we can hear the sound of an approaching train even when the train is far off but its sound cannot be heard through the air. Why?

(b) How could you convince a small child that when you speak, it is not necessary for air to travel from your mouth to the ear of a listener?

3 A device called oscillator is used to send waves along a stretched string. The string is 20 cm long, and four complete waves fit along its length when the oscillator vibrates 30 times per second. For the waves on the string:

(a) What is their wavelength?

(b) What is their frequency?

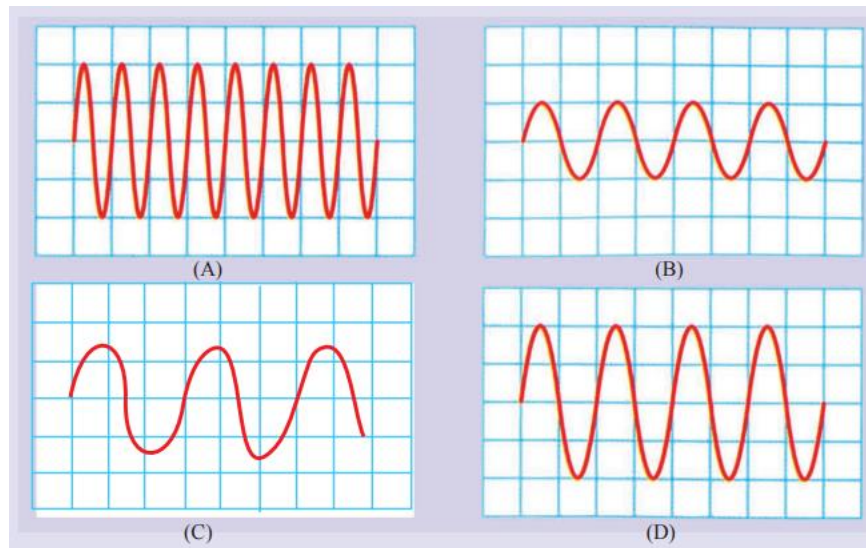
(c) What is their speed?

4 A sound producing body is at considerable distance from a man. There can be four different media W, X, Y and Z between the sound producing body and the man. The medium X brings the sound to man most quickly whereas medium Z takes the maximum time. The time taken by medium W in bringing sound to man is less than that of X but more than that of Z. The medium Y, however, fails to bring the sound from the sound producing body to the man. Which medium could be the one?

- (a) Having no fixed shape and no fixed volume?
- (b) Having a fixed volume but no fixed shape?
- (c) Having the same composition as that on the moon?
- (d) Having a fixed shape and a fixed volume ?

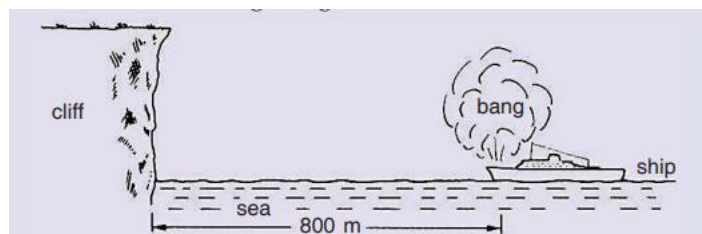
5 Consider the following sound waves marked A, B, C and D:

- (a) Which two waves represent sounds of the same loudness but different pitch?
- (b) Which two waves represent sounds of the same frequency but different loudness?
- (c) State whether all these sound waves have been produced by the same vibrating body or different vibrating bodies?
- (d) Which vibrating body/bodies could have generated the sound waves shown here?



6 The drawing shows a ship 800 m from a cliff. A gun is fired on the ship. After 5 seconds the people at the front of the ship hear the sound of the gun again.

- (a) What is the name of this effect?
- (b) What happens to the sound at the cliff?
- (c) How far does the sound travel in 5 seconds?
- (d) Calculate the speed of sound.



- 7. Make a Investigatory Project in your Syllabus with related diagram and brief Information .
- 8. In the Chapter - 5 Fundamental unit of life describe all the events , process and function with labelled neat diagram?
- 9. What is plant tissue & Animal tissue. Describe features & Function with the help of flow chat and diagram?
- 10. What is Animal Husbandry? Describe its parts with Suitable Example?

11. Differentiate between i) Solid , Liquid, Gas ii) Physical & Chemical Change iii) Mixture & Compounds iv) Law of Conservation & Law of constant proportion v) Isotopes & Isobars
12. Describe All the three theory with postulates, Drawbacks & invention with diagram?
13. Learn Full syllabus and complete your practical file as well.

IT

1. Create a table in excel (5 rows , 5 columns) and convert it into column chart. Paste Hard copy in test register.
2. Write five functions and formulas in register.
3. What is the difference between Label and Value in calc?
4. What is the purpose of IF function in Calc? Explain with suitable example.
5. How do we enter date and time in a Calcsheet?
6. Do Pg no.139 activity in excel and attach the printout in file.
- 7 . Write the difference between Absolute and Relative referencing.
8. Write the components of chart.
9. What points should you remember while making a presentation?
10. Do pg no. 150-151 activity in register and solve all the formulas.
11. Prepare file work.
12. Complete register work and revise.