

**St. Andrews Scots Sr. Sec. School**

9<sup>th</sup> Avenue , I.P. Extension, Patparganj, New Delhi-92

Session 2024-25

Class-9<sup>th</sup>

**WINTER  
HOLIDAY  
HOMEWORK**

**Session:2024-25**

**Class- 9<sup>th</sup>**

**The great aim of  
education is not  
knowledge but action.**

## **English**

\*Do this Worksheet in your English registers.

Ques1. Fill in the blanks with the appropriate form of modals.

1. Take the raincoat as it \_\_\_ rain later. (might/would)
2. You \_\_\_ visit the doctor immediately as your symptoms are quite severe. (must/ can)
3. \_\_\_ you give me a bottle of water? My throat is parched. (could/shall)
4. I \_\_\_ like to talk about the great freedom fighters on Independence Day. (would/must)
5. One \_ help the old and needy people. (ought to/can)

Ques2. Go through the sentences and change their tenses as directed.

1. The boy speaks the truth. (Present Continuous Tense)
2. Mr Cooper has spoken about Dinosaurs. (Present Perfect Continuous Tense)
3. Mr Bert had taught for five years. (Past Perfect Continuous Tense).
4. Dev saw the Prime Minister yesterday. (Future Continuous Tense)
5. The boat sailed yesterday. (Simple Present Tense)

Ques3. Combine the following pair of sentences, using the sentence connectors given in bracket.

1. Suman turned on the radio. Ravi was taking a shower. (while)
2. My friend will go to school. After that, he will come to my house. (before)
3. Don't leave the class. You will get permission to do so. (until)
4. A mango tree is tall. A coconut tree is taller. (than)
5. He pushed the accelerator. The car gained speed. (since)

Ques4. Suppose you are the Head Manager of your Office, XYZ Pvt Ltd. Write down an email informing your employees regarding the change in office timings for the monsoon season, due to heavy traffic conditions in the city.

Ques5. In monsoon season, outbreak of malaria and dengue is quite common. Write an article on the topic "The killer Disease - 'Dengue'. You are Srishti/ Suhan.

\*Complete all the work and revise the content done till date.

## विषय- हिंदी

- 1.-क्या मतदान की आयु घटकर 16 वर्ष कर दी जानी चाहिए ? इस विषय के पक्ष तथा विपक्ष में एक अनुच्छेद लिखिए।
- 2.-अपने भाई के जन्म दिवस पर मित्र को आमंत्रित करते हुए दूरभाष पर होने वाला संवाद लिखिए।
- 3.-स्वर संधि तथा विराम चिह्नों का अभ्यास करो।
- 4.- हरिवंश राय बच्चन के जीवन पर प्रकाश डालिए।
- 5.-कक्षा में करवाया गया कार्य पूरा कीजिए तथा याद भी कीजिए।

## Science

Q1. Make a neat and labelled Chart on the topic “The Fundamental Unit of Life –Cell”.

Q2. Complete your notes of Physics, Chemistry and Biology.

## Social Science

### **INSTRUCTIONS:**

Do the project in a project file.

Make a folder and attach all the maps in it.

Complete the chapters done in class.

Revise all the work done in class.

- 1) Make a project file on the topic of Forest Society and Colonialism in which you have to:
  - Compare the forest situations prevailed in the pre- colonial, colonial and post-colonial era.
  - Evaluate the growth & role of commercial forestry in different types of Vegetation.
  - Analyze the reasons for rebellions at forest areas of South East-Asia with specification to JAVA
  - To defend the role of government and the local communities in protecting the forest cover.
  - Clear, related and coloured pictures
  - Usage of pictures is compulsory for the activities.
  - Minimum 8-10 pages.
  - The activities must be done in the project file itself.

2) Do the following maps:

S. No.	Subject	Name of the Chapter	List of Areas to be located /labeled/identified on the map
I	History	French Revolution	Outline political map of France. Locate/label/identify. • Bordeaux, Nantes, Paris and Marseille
		Socialism in Europe and the Russian Revolution	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
		Nazism and the Rise of Hitler	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
II	Geography	India : size and location	<ul style="list-style-type: none"> <li>• India – States and Capitals</li> <li>• Tropic of Cancer, Standard Meridian (Location and Labeling)</li> <li>• Neighbouring Countries</li> </ul>
		India physical features	<ul style="list-style-type: none"> <li>• Mountain Ranges : The Karakoram, The Zanskar, The Shivalik, The Aravali, The Vindhya, The Satpura, Western and Eastern Ghats</li> <li>• Mountain Peaks – K2, Kanchan Junga, Anai Mudi</li> <li>• Plateau – Deccan Plateau, Chota Nagpur Plateau, Malwa Plateau</li> <li>• Coastal Plains – Konkan, Malabar, Coromandel &amp; Northern Circar (Location and Labelling)</li> </ul>
		Drainage system	Rivers (Identification only) <ul style="list-style-type: none"> <li>• The Himalayan River Systems – The Indus, The Ganges and The Sutlej</li> <li>• The Peninsular Rivers – The Narmada, The Tapti, The Kaveri, The Krishna, The Godavari, The Mahanadi</li> <li>• Lakes – Wular, Pulicat, Sambhar, Chilika</li> </ul>
		Climate	• Annual rainfall in India, Monsoon wind direction
		Population	<ul style="list-style-type: none"> <li>• Population density of all states</li> <li>• The state having highest and lowest density of population</li> </ul>

## Artificial Intelligence

1. What is the difference between cooperative and cooperation?
2. List any 4 business essential activities.
3. Explain types of business ownership.
4. What are domains of AI?
5. Write application of AI.
6. Prepare oral presentation according to roll numbers allotted-
  - 1-15 an entrepreneur has the power to change the world
  - 16-30 basic difference between traditional business and entrepreneurial entity
  - 31-50 how AI contribute to development of human being
7. Complete your notes in AI notebook.
8. Learn syllabus covered till now for test.

## Arts

Complete your art file work topics are

- |                 |                     |
|-----------------|---------------------|
| 1. Still life   | 6. Rangoli          |
| 2. Mandala art  | 7. Free hand design |
| 3. Landscape    | 8. Sketching work   |
| 4. Nature study |                     |
| 5. Bird study   |                     |

## Mathematics

Q1. Conical tent is 10 m high, and the radius of its base is 24 m. Find

- (i) slant height of the tent.
- (ii) cost of the canvas required to make the tent, if the cost of  $1 \text{ m}^2$  canvas is Rs 70.  
(Assume  $\pi=22/7$ )

Q2. What length of tarpaulin 3 m wide will be required to make a conical tent of height 8 m and base radius 6m? Assume that the extra length of material that will be required for stitching margins and wastage in cutting is approximately 20 cm. [Use  $\pi=3.14$ ]

Q3. The slant height and base diameter of the conical tomb are 25m and 14 m, respectively. Find the cost of whitewashing its curved surface at the rate of Rs. 210 per  $100 \text{ m}^2$ . (Assume  $\pi = 22/7$ )

Q4. A bus stop is barricaded from the remaining part of the road by using 50 hollow cones made of recycled cardboard. Each cone has a base diameter of 40 cm and height 1 m. If the outer side of each of the cones is to be painted and the cost of painting is Rs. 12 per  $\text{m}^2$ , what will be the cost of painting all these cones? (Use  $\pi = 3.14$  and take  $\sqrt{1.04}=1.02$ )

Q5. The radius of a spherical balloon increases from 7cm to 14cm as air is being pumped into it. Find the ratio of surface areas of the balloon in the two cases.

Q6. A hemispherical bowl is made of steel, 0.25 cm thick. The inner radius of the bowl is 5cm. Find the outer curved surface of the bowl. (Assume  $\pi = 22/7$ )

Q7. A right circular cylinder just encloses a sphere of radius  $r$  (see fig.13.22) Find

- (i) Surface area of the sphere
- (ii) Curved Surface area of the Cylinder
- (iii) ratio of the areas obtained in (i) and (ii)



Q8. Find the radius of a sphere whose surface area is  $154 \text{ cm}^2$ . (Assume  $\pi = 22/7$ )

Q9. A hemispherical bowl made of brass has an inner diameter 10.5cm. Find the cost of tin-plating it on the inside at the rate of Rs 16 per  $100 \text{ cm}^2$ . (Assume  $\pi = 22/7$ )

Q10. The diameter of the moon is approximately one-fourth of the diameter of the earth.  
Find the ratio of their surface areas.

Q.11 AD and BC are equal perpendiculars to a line segment AB (see Fig. 7.18). Show that CD bisects AB.

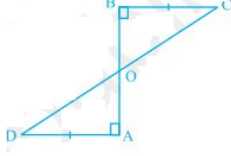


Fig. 7.18

Q.12 In Fig. 7.21,  $AC = AE$ ,  $AB = AD$  and  $\angle BAD = \angle EAC$ . Show that  $BC = DE$ .

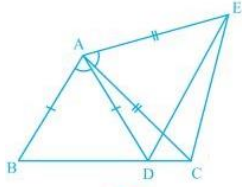


Fig. 7.21

Q.13 AB is a line segment and P is its mid-point. D and E are points on the same side of AB such that  $\angle BAD = \angle ABE$  and  $\angle EPA = \angle DPB$  (see Fig. 7.22). Show that

- $\triangle DAP \cong \triangle EBP$
- $AD = BE$

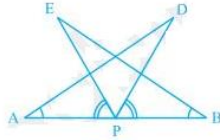


Fig. 7.22

Q.14 In right triangle ABC, right angled at C, M is the mid-point of hypotenuse AB. C is joined to M and produced to a point D such that  $DM = CM$ . Point D is joined to point B (see Fig. 7.23). Show that:

- $\triangle AMC \cong \triangle BMD$
- $\angle DBC$  is a right angle.

## विषय – संस्कृतम्

प्रश्न 1 नदी, लता, युष्मद्, फल, किम् (तीनों लिंगों में) शब्द रूप लिखिए तथा याद कीजिए।

प्रश्न- 2 सेव्, लभ्, रुच्, भू, अस्, धातु रूप (लट्, लृट्, लंग, लोट्, विधिलिंग) पांचो लकार में लिखिए तथा याद कीजिए।

प्रश्न -3 पत्र लेखनम् - पत्र संख्या 8, 10, 12, 20, 21 (Together with) से A-4 साइज़ शीट पर लिखकर अभ्यास कीजिए।

प्रश्न - 4 पंच चित्राधारितं सरल संस्कृते पंच वाक्यानि लिखत् । (A -4 साइज़ शीट पर )

प्रश्न-5 सामयिक परीक्षा पाठ्यक्रम याद कीजिए।

प्रश्न-6 व्यंजन संधि तथा विसर्ग संधि (Together with) से अभ्यास कीजिए।

नोट : (1). प्रश्न 1,2, उत्तर पुस्तिका ( Notebook) में कीजिए ।

(2).प्रश्न 3, 4 (A-4 साइज़ शीट पर) कीजिए।

(3).प्रश्न 6 (Together with) में अभ्यास कीजिए।

# HAPPY NEW YEAR