

**Roll Number**

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**DAV PUBLIC SCHOOLS, ODISHA ZONE  
PERIODIC TEST-II, 2023-24**

- Please check that this question paper contains 3 printed pages.
- Check that this question paper contains 19 questions.
- Write down the Serial Number of the question in the left side of the margin before attempting it.

**CLASS-VII  
SCIENCE & TECHNOLOGY**

**Time -1.30 hrs**

**Full Marks - 40**

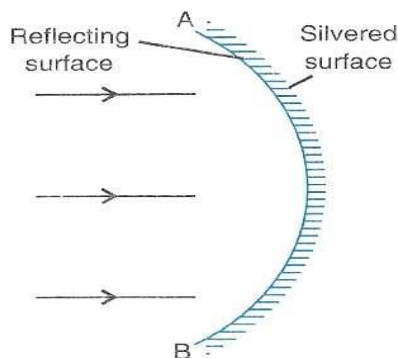
**General instructions:-**

1. All questions are compulsory.
2. Qs.1 to 8 are very short answer (VSA) type and carry 1 mark each.
3. Qs.9 is Assertion Reason based question and carries 1 mark.
4. Qs.10 is case study based and carries four bits of 1 mark each.
5. Qs.11 to 14 are short answer type (SA I) and carry 2 marks each.
6. Qs.15 to 17 are short answer type (SA II) and carry 3 marks each.
7. Qs.18 & 19 are long answer type questions(LA) and carry 5 marks each.

**SECTION-A(1X8=8)**

**Answer the following in brief:**

1. State the practical uses of the (a) long (b) short yarn threads, obtained during the making of wool. (1)
2. If an object is placed at a distance of 2m in front of a plane mirror, find the distance between the object and the image formed by the mirror. (1)
3. Define the term sericulture. (1)
4. Ammonia is found in many household goods, such as window cleaners. It turns red litmus blue. Identify its nature. (1)
5. State the type of mirror from the given diagram. (1)



6. List two varieties of wool. (1)
7. Is it possible to obtain the image on the screen when the candle is too close to the concave mirror? (1)

8. Name the acid present in red ant that causes a shooting pain when it stings. (1)

**SECTION-B(1X1=1)**

9. Choose the correct option: (1)

**Assertion (A):** Sugar is a neutral substance.

**Reason (R):** Sugar solution turns red litmus blue.

- a. Both A and R are true and R is the correct explanation of A.
- b. Both A and R are true but R is not the correct explanation of A.
- c. A is true but R is false.
- d. A is false but R is true.

**SECTION-C(1X4=4)**

10. Read the following passage carefully: (4)

Last Sunday Girish's mother, Priyanka was preparing the dinner in her kitchen for Girish and his father. Both of them were feeling very hungry and they sat idly on their respective chairs and having empty plates and spoons on their dining table. They were shouting like a 5 year old child that they wanted the dinner so much eagerly in order to fill their stomach. At the same time, Girish's mother served the cooked food to both of them and the moment Girish was just about to eat the rice with the help of spoon, he noticed that the spoon has such a shining surface that it reflected the light rays incident on it.



Answer the following questions by choosing the most appropriate option:

(a) The type of reflection that happens on a shining surface is: (1)

- i. regular reflection
- ii. irregular reflection
- iii. diffused reflection
- iv. both diffused and irregular reflection

(b) Name the type of spherical mirror represented by the shining steel spoon. (1)

- i. Concave
- ii. Convex
- iii. Plane
- iv. Both concave and convex

(c) The image formed by a convex mirror is : (1)

- i. diminished
- ii. erect
- iii. virtual
- iv. all of the above

(d) Like the steel spoon, another object that can act as a concave and convex mirror is : (1)

- i. a stainless steel bowl
- ii. a stainless steel ruler
- iii. a glass bowl
- iv. an iron nail

**SECTION-D(2X4=8)**

11. While playing in a park, Dani was stung by a honey bee. Some elders suggested applying paste of baking soda and others lemon juice as a remedy. Which remedy do you think is appropriate? Write in support of your answer. (2)
12. Describe an activity that can help to decide whether a given solution is acidic or basic in nature. (2)
13. State the two laws of reflection of light. (2)
14. A woollen garment keeps us warm in winter. Give reason. (2)

**SECTION-E(3X3=9)**

15. Bholu, Molu and their friend Golu were provided with a test tube each containing China rose solution which was pink in colour. Bholu added two drops of solution 'A' in his test tube and got dark pink colour. Molu added 2 drops of solution 'B' to his test tube and got green colour. Golu added 2 drops of solution 'C' but could not get any change in colour. Suggest the possible cause for the variation in their results. (1+1+1)
16. Draw a ray diagram to show the formation of an image when an object is placed between centre of curvature (C) and focus (F) in a concave mirror and also write the nature of the image formed. (2+1)
17. Explain the first three steps involved in the process of making wool. (1+1+1)

**SECTION-F(2X5=10)**

18. a. State any two properties of salts. (2+2+1)  
b. Identify the acid and base needed for the preparation of the following salts.
  - i.  $K_2CO_3$
  - ii.  $NH_4NO_3$c. Give one example each of mineral acids and organic acids.
19. a. Draw a neat and labelled diagram to show the life cycle of a silk moth. (3+1+1)  
b. Mention the feeding behaviour of a silk worm.  
c. The liquid secreted by the silkworm hardens. Give reason.

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