



विद्या सर्वार्थ साधिका

ANANDALAYA

PERIODIC TEST -1

Class: VII

Subject: Science
Date : 15-07-2025

MM : 40
Time: 1 Hr. 30 min.

General Instructions:

1. There are 21 questions in this question paper. All questions are compulsory.
2. Q. No. 1 to 12 are objective type questions and carry 1 mark each.
3. Q. No. 13 to 15 are short answer type questions and carry 2 marks each.
4. Q. No. 16 to 19 are also short answer type questions and carry 3 marks each.
5. Q. No. 20 and 21 are long answer questions and carry 5 marks each.

1. The temperature shown by the thermometer in the given figure is _____. (1)

- (A) 28.0°C
(B) 27.5°C
(C) 26.5°C
(D) 25.3°C



2. Three liquids with their respective boiling and freezing points are shown in the given table. (1)

Liquids	Freezing Point	Boiling Point
Mercury	-39°C	357°C
Alcohol	-112°C	78°C
Pentane	-130°C	36°C

A thermometer that can measure both -50°C and 38°C should be filled with _____.

- (A) mercury only (B) alcohol only (C) pentane only (D) all three liquids

3. Raj and Radha measured their body temperature. Raj found his body temperature as 37°C and Radha found it as 98.6°F . Which of the following statements is true? (1)

- (A) Raj has a higher body temperature than Radha.
(B) Raj has a lower body temperature than Radha.
(C) Both have normal body temperature.
(D) Both are suffering from fever.

4. Organic matter is added to soil to neutralise the excess of the base in the soil as organic matter _____. (1)

- (A) releases salt on decomposition
(B) absorbs the base from the soil
(C) releases acid on decomposition
(D) absorbs the acid from the soil

5. On adding phenolphthalein indicator to a colourless solution, no change is observed. (1)
What is the nature of this solution?

- (A) Neither basic nor acidic (B) Either acidic or basic
(C) Either acidic or neutral (D) Either basic or neutral

6. Which of the following set of substances contain acids? (1)

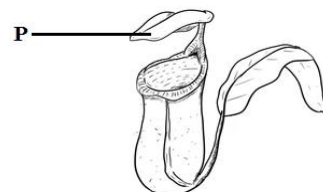
- (A) Grapes, lime water (B) Vinegar, soap
(C) Curd, milk of magnesia (D) Curd, vinegar

7. Ammonium acetate is a salt of _____. (1)
 (A) ammonium hydroxide and hydrochloric acid
 (B) ammonium chloride and acetic acid
 (C) ammonium hydroxide and acetic acid
 (D) ammonium hydroxide and sodium acetate

8. A student places a green plant in an airtight, transparent container and exposes it to sunlight. (1)
 After a few hours, she tests the presence of starch in one of the leaves and observes a positive result. What process is responsible for such a result?
 (A) Respiration (B) Transpiration (C) Photosynthesis (D) Fermentation

9. What is the function of the part labelled as 'P' in the given diagram? (1)

- (A) It absorbs sunlight.
 (B) It attracts insects.
 (C) It prevents insect escape.
 (D) It performs digestion.



For question numbers 10 to 12, two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

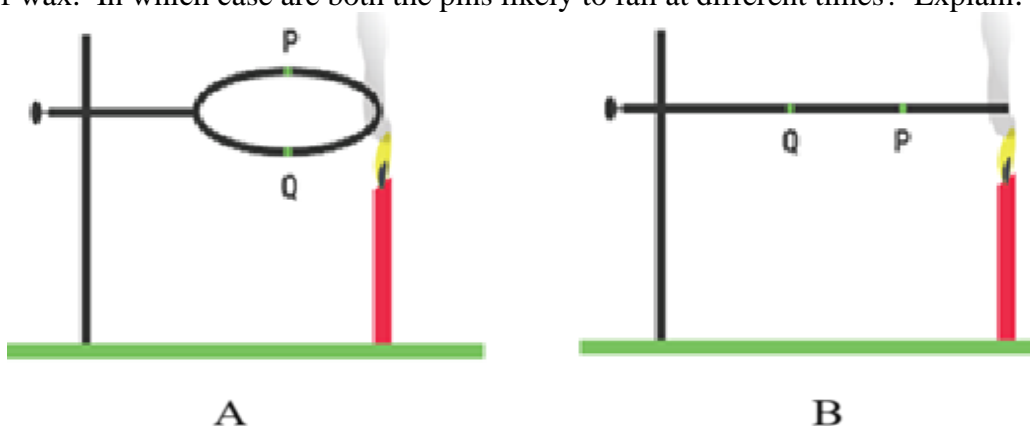
- (A) Both A and R are true and R is the correct explanation of A.
 (B) Both A and R are true but R is NOT the correct explanation of A.
 (C) A is true but R is false
 (D) A is false and R is also false.

10. A: Convection occurs more readily in gases than liquids. (1)
 R: Gases expand faster than liquids for the same rise in temperature.

11. A: Turmeric stain on white clothes turns red on washing with soap. (1)
 R: Turmeric is a natural indicator.

12. A: Plants need nitrogen to make proteins. (1)
 R: Plants absorb nitrogen directly from the atmospheric air through leaves.

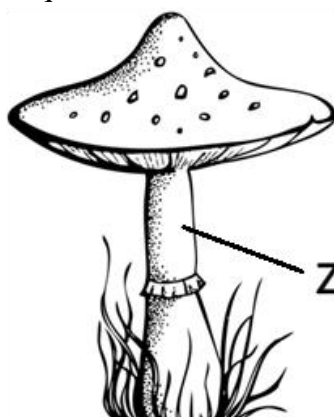
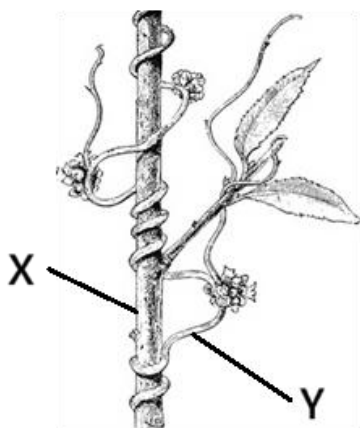
13. In the given figures A and B, pins P and Q are fixed to a metal loop and an iron rod with the help of wax. In which case are both the pins likely to fall at different times? Explain. (2)



14. An unknown indicator turns green in sodium hydroxide solution. Name the indicator. (2)
 What colour does it show in an acidic solution?

15. What is symbiosis? Explain it with an appropriate example. (2)

16. Mohit left a slice of bread inside his tiffin box. After a few days, he saw a greenish-white growth on it. (3)
(a) What kind of organism might be growing on the slice?
(b) Name the mode of nutrition exhibited by such organisms.
(c) How do such organisms derive nutrition?
17. (a) 'You should not try to wash of a turmeric stain on your clothes with soap'. Justify the statement. (3)
(b) Give one example each of a mineral acid and natural acid.
18. How does neutralisation reaction play an important role in our life? Explain with example. (3)
19. Draw and explain the phenomenon of sea breeze in coastal areas. (3)
20. (a) What is temperature? Write its SI unit. (5)
(b) Write any four points of differences between clinical thermometer and laboratory thermometer.
(c) Give reason for the following:
(i) It is advised not to hold the thermometer by its bulb while reading it.
(ii) A digital thermometer is preferred over mercury thermometer.
21. Observe the given pictures and answer the questions that follow: (5)



- (a) Name the organism labelled as Y and write its mode of nutrition.
(b) List two differences between the organisms Y and Z.
(c) Identify and explain the relationship between the organisms X and Y.