



परमाणु ऊर्जा शिक्षण संस्था  
Atomic Energy Education Society

आवधिक परीक्षण II- प्रश्न पत्र Periodic Test II-Practice Paper (2025-26)

कक्षा/Class: VIII

विषय/Subject: Science

अधिकतम अंक/Maximum Marks : 40

दिया गया पाठ्यक्रम/Portion covered: Chapters 3, 6, 8, 9&12

विद्यार्थी का नाम/Name of the student: \_\_\_\_\_

अनुक्रमांक /Roll No. \_\_\_\_\_ कक्षा/अनुभाग Class /Sec.: \_\_\_\_\_ दिनांक/Date: \_\_\_\_\_

**I) Multiple Choice Questions**

**(1X10=10)**

- 1) Which of the following is an abiotic component of a habitat?  
A) Insects B) Soil C) Trees D) Birds
- 2) When no more solute can dissolve in a given amount of solvent at a specific temperature, the solution is said to be:  
A) Unsaturated B) Saturated C) Supersaturated D) Dilute
- 3) Which one of these is a heterogeneous mixture?  
A) Milk B) Salt solution C) Oil + water mixture D) Steel (iron + carbon)
- 4) The SI unit of pressure is:  
A) Newton (N) B) Pascal (Pa) C) Joule (J) D) Watt (W)
- 5) During a thunderstorm it is safer to be ...  
A) Inside a car B) near a metal pole C) under a tall tree D) on an open field
- 6) Which of the following diseases is transmitted by an insect vector?  
(A) Cholera (B) Hepatitis A (C) Dengue fever (D) Common cold
- 7) Bronze is an alloy of \_\_\_\_\_  
A) Copper and Zinc B) Copper and Tin C) Carbon and Copper D) Zinc and Tin
- 8) Who discovered the smallpox vaccine?  
A) Edward Jenner B) Robert Hooke  
C) Isaac Newton D) Louis Pasteur
- 9) Which of the following best defines an ecosystem?  
A) A group of animals living together only B) The non-living part of a habitat only  
C) A community of living organisms interacting with each other and with their non-living environment in a particular area D) A place where only plants grow
- 10) Which of these is a practical use of graphene aerogel mentioned in research?  
A) As a heavy anchor for boats B) Making table spoons  
C) Thermal insulation, oil spill clean-up, electrodes in energy devices  
D) Replacing bricks in all buildings immediately

**II) Assertion-Reason Type Questions**

**(1X2=2)**

For question numbers from 11 and 12, two statements are given, one labelled as Assertion (A) and the other labelled as Reason(R). Select the correct answer to these questions from codes a), b), c), d) as given below.

- (a) Both assertion (A) and reason (R) are true and reason is the correct explanation of the assertion.
- (b) Both assertion (A) and reason (R) are true but reason is not the correct explanation of the assertion.
- (c) Assertion (A) is true but the Reason (R) is false.

(d) Assertion (A) is false but the Reason (R) is true.

11) Assertion (A): Liquids exert pressure on the walls of the container.

Reason (R): Liquids exert pressure only in the downward direction.

12) Assertion: Non-communicable diseases cannot be prevented.

Reason: Many NCDs are caused by lifestyle factors and can be reduced by healthy habits.

### III Case Based Questions

(1X4=4)

A river runs through a forest and supports many fish. Around the river there are flowering plants that depend on insects for pollination. Local villagers begin dumping untreated sewage into the river. Over time, fish populations decline, dragonfly larvae increase, adult dragonflies become more numerous, and bees and butterflies decrease in number. The flowering plants show reduced seed production and local farmers notice lower yields of certain crops near the river.

13) Identify one abiotic changes caused by the sewage dumping.

14) What is the immediate effect observed on the fish population, and why?

15) How did these changes affect the flowering plants and crop yields?

16) Write two biotic components of this habitat.

### IV Short Answer Type Questions - I

(2X5=10)

17) What is antibiotic resistance? Who discovered the first antibiotic?

18) Why does a sharp knife cut an apple more easily than a blunt one?

19) Write the reactions of iron sulfide with dilute hydrochloric acid and describe the gas evolved.

20) Explain how removal of a top predator can affect an ecosystem.

21) How can air be considered a solution? Explain.

### V Short Answer Type Questions - II

(3X3=9)

22) a) Why does a wooden stick float on water while an iron rod of the same size sinks?

b) Define density. Write its SI unit.

c) A wooden block has a mass of 250 g and a density of 0.5 g/cm<sup>3</sup>. Find its volume.

23) Define elements, compounds and mixtures and give two examples for each.

24) a) Name two diseases that spread through the contaminated food and water. Write their causal agents and symptoms of each.

b) Write two precautions to be taken to prevent them.

### VI) Long Answer Questions

(5 marks)

25) a) What is a cyclone?

b) Explain how a cyclone forms over warm ocean waters.

c) What is the eye of a cyclone?

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