



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/Portions covered: Chapters 3, 6, 8, 9&12

Answer Key

I) Multiple Choice Questions

(1X10=10)

Answer Key

1) B 2) B 3) C 4) B 5) A 6) C 7) B 8) A 9) C 10) C

II) Assertion-Reason Type Questions

11) (c) Assertion (A) is true but the Reason (R) is false

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

III Case Based Questions

13) Increased pollution in water(reduction in water quality/oxygen content)

14) Fish populations decline because polluted water reduces oxygen and introduces toxins, making habitat unsuitable for fish.

15) Reduced bees and butterflies (pollinators) mean less flowers get pollinated, seed production falls, leading to reduced crop yields near the river.

16) fish, dragonfly (Any relevant answer)

IV Short Answer Type Questions - I

17) Antibiotic resistance is when bacteria develop the ability to defend themselves against antibiotics. The first antibiotic, penicillin, was discovered by Alexander Fleming.

18) Because the sharp knife has a smaller area at its edge, so for the same force the pressure applied is higher (Pressure = Force/Area), making it easier to cut.

19) Iron sulfide + Dilute HCl → Iron chloride + Hydrogen sulfide gas

Hydrogen sulfide is colourless, has a rotten egg smell, and does not burn with a pop.

20) The removal of a top predator can lead to an increase in herbivore or smaller predator populations, which may over-consume producers or lower-level organisms, causing imbalance in species composition, decline in vegetation, and reduced ecosystem health.

21) Air is a gaseous solution in which nitrogen acts as the solvent (present in the largest amount) and oxygen, carbon dioxide, argon, etc. act as solutes. The gases are evenly mixed, forming a uniform mixture.

22) a) Because wood has a lower density than water, it floats; iron has a higher density, so it sinks.

b) Density is the mass per unit volume of a substance. SI unit: kg/m³

c) The volume of the wooden block is 500 cm³.

23) 1. **Elements:** An element is a pure substance made up of only one kind of atom. They cannot be broken down into simpler substances by chemical means. Examples: Iron , Oxygen

2. **Compounds:** A compound is a pure substance made up of two or more elements chemically combined in a fixed ratio. Examples: Water (H₂O), Carbon dioxide (CO₂)

3. **Mixtures:** A mixture is a combination of two or more substances that are physically mixed and where each substance retains its properties. Examples: Salt and water mixture, Air (Any other relevant examples)

24) a) Hepatitis A -Virus - Fatigue, fever, loss of appetite, nausea, vomiting, jaundice, pain in the upper right abdomen

Cholera –Bacteria- Diarrhoea and dehydration (any two relevant answers)

b) Maintain personal hygiene and good sanitary habits, consumption of properly cooked food and boiled drinking water (any two relevant answers)

25) a) A cyclone is a large, spinning storm system with strong winds and heavy rainfall that forms over warm ocean waters. It is a low-pressure system where air moves rapidly around the centre.

b) Cyclones begin over warm oceans where the surface water gets heated.

The warm, moist air above the ocean rises and cools, causing the water vapour to condense into clouds and raindrops.

When condensation happens, heat is released, warming the air even more and making it rise faster.

This rising air creates a low-pressure area, and air from surrounding areas rushes in to fill the gap.

Due to the rotation of the Earth, the moving air starts to spin, forming a circular system of winds and clouds called a cyclone.

c) The eye of a cyclone is the calm center of the storm where the air pressure is the lowest. In the eye, winds are light and the weather is clear, but the area around the eye has very strong winds and heavy rain.
