



परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

(2025-26)

विद्यालय/School: A.E.C.S NO.5

**HOLIDAY HOMEWORK WORKSHEET**

कक्षा /Class: VIII.

विषय/Subject: SCIENCE

Portion covered: Chapter-3 Health: The Ultimate Treasure; Chapter-6 Pressure, Winds, Storms, and Cyclones; Chapter-8; Nature of matter: Elements, Compounds, and Mixtures; Chapter-12 How nature Works in Harmony.

Answer the following questions:

Q1. Difference between communicable and non-communicable diseases. Mention any 4 differences.

Q2. Your family is planning to travel to another city where malaria is prevalent.

(i) What precautions should you take before, during and after the trip?

(ii) How can you explain the importance of mosquito nets or repellents to your sibling?

(iii) What could happen if travellers ignore health advisories in such areas?

Q3. When our body encounters a pathogen for the first time, the immune response is generally slow, but on exposure to the same pathogen again, the immune response by the body is much more compared to the first exposure. Why is it so?

Q4. There are two ships A and B. Ship A has a base area of  $12 \text{ m}^2$  and 8 persons are seated in it. Ship B has a base area of  $9 \text{ m}^2$  and 5 persons are seated in it. If each person has a weight of 500 N, find out which boat will experience more pressure on its base and by how much?

Q5. Explain how a storm becomes a cyclone.

Q6. Describe an activity to show that air flows from a region of high pressure to a region of low pressure.

Q7. Explain the features of a compound and how it differs from an element.

Q8. What new substance is formed when a mixture of iron filings and sulfur powder is heated, and how is it different from the original mixture? Also, write the word equation for the reaction.

Q9. What are mixtures?

Q10. Give classification and explain classification of mixtures with example.

Q11. Define food chain. Draw the diagram of a food chain represented in a pyramid form and label them.

Q12. What are decomposers? How do decomposers help in enhancement of environment?

Q13. What are the effects of human-made ecosystem?

Note: Revise the complete PT-2 syllabus thoroughly.