



परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

आवशिक परीक्षण-II अभ्यास पत्र / PT-II Practice Paper (2025-26)

कक्षा /Class: VIII विषय /Subject: Science माह/ Month: January अंक/Marks: 40

दिया गया पाठ्यक्रम/Portion covered: _____

विद्यार्थी का नाम/Name of the student: _____

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

SECTION A

Multiple Choice Questions

Choose the correct option.

(1x10=10M)

- Which disease is non-communicable?
a) Typhoid b) Dengue c) Diabetes d) Chickenpox
- According to WHO, health means:
a) Only absence of disease
b) Physical fitness only
c) Complete physical, mental, and social well-being
d) Ability to work hard
- Pressure is defined as:
a) Force x area b) Force / area c) Area / force d) Mass x acceleration
- Atmospheric pressure is the pressure exerted by:
a) Water only b) Rocks of Earth c) Air around us in all directions d) Only wind
- What happens when lime water is exposed to air?
a) It turns green b) It becomes milky c) It evaporates d) It remains unchanged
- Why can't water be separated into hydrogen and oxygen by physical methods?
a) It is a uniform mixture b) It is a compound
c) It is an element d) It is a non-uniform mixture
- In a salt-water solution, which is the solvent?
a) Salt b) Water c) Both are solvents d) Neither is solvent
- Air is a gaseous solution in which the major component (solvent) is:
a) Oxygen b) Nitrogen c) Carbon dioxide d) Argon
- What is a habitat?
a) Only the place where animals hunt

- b) The place and conditions where an organism lives and survives
- c) A community of only plants d) Only the climate of an area

10. Which pair correctly shows biotic and abiotic components?

- a) Soil (biotic), fish (abiotic) b) Sunlight (biotic), bacteria (abiotic)
- c) Tree (biotic), sunlight (abiotic) d) Frog (abiotic), air (biotic)

SECTION B

The following two questions consist of two statements - Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, and R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true. (1x4=4M)

11. Assertion (A): We rarely see diseases like smallpox and polio anymore.

Reason (R): Smallpox and polio have been nearly eradicated due to widespread vaccination programs.

12. Assertion (A): A sea breeze blows from the sea towards the land during the day.

Reason (R): Land heats up faster than the sea, creating a low-pressure area over land.

13. Assertion (A): Elements and compounds are both considered pure substances.

Reason (R): Both elements and compounds are made of only one type of particle and have a fixed composition.

14. Assertion (A): Biodiversity is crucial for the stability of an ecosystem.

Reason (R): A high variety of species ensures that if one organism disappears, others can fill its role, preventing a collapse of the food web.

SECTION C

15. Case based questions. **(1x4=4M)**

Passage: *Journey of Food in the Human Body*

In a classroom activity, students discussed how food travels through the human digestive system. Their teacher explained that digestion starts in the mouth with saliva, continues in the stomach where proteins are broken down, and is completed in the small intestine with the help of bile and pancreatic juice. The digested nutrients are absorbed through villi, and the undigested part moves to the large intestine for water absorption and eventual excretion.

Answer the following questions.

i) Where does the digestion of starch begin in the human body?

- a) Stomach b) Mouth c) Liver d) Small intestine

ii) What is the function of villi in the small intestine?

- a) Secretion of digestive enzymes b) Absorption of nutrients
- c) Storage of food d) Removal of waste

iii) Which organ secretes bile?

- a) Pancreas b) Stomach c) Liver d) Gallbladder

iv) What happens in the large intestine?

a) Digestion of proteins

b) Absorption of nutrients

c) Water absorption from undigested food

d) Mixing of enzymes

SECTION D

Short Answer Type – I

(2X5=10M)

Answer the following questions.

1. What are secondary sexual characteristics?
2. Define temperature.
3. Define average speed.
4. What is digestion?
5. What is adolescence and why is it important?

Short Answer Type – II

(3X4=12M)

Answer the following questions.

1. Explain how biotic and abiotic components interact in an ecosystem. Give suitable examples.
2. Classify each of the following, as a physical or a chemical change. Give reasons.
 - (a) Drying of a shirt in the sun.
 - (b) Rising of hot air over a radiator.
 - (c) Burning of kerosene in a lantern.
3. Compare communicable and non-communicable diseases in terms of causes, spread, and prevention.
4. Explain how particles behave at the microscopic level when a solute dissolves in a solvent, and why the mixture looks clear.