

DELHI PUBLIC SCHOOL JAMMU

SESSION 2024-25

MONTH : OCTOBER

ASSIGNMENT

CLASS :VII

SUBJECT: S.st

TOPIC: AIR- COMPOSITION AND STRUCTURE

Q1 Which gas is the most abundant in Earth's atmosphere?

- a) Oxygen b) Nitrogen c) Carbon dioxide d) Argon

Q2. Which of the following is true about the atmosphere?

- a) The troposphere is where most weather occurs.
b) The mesosphere is the closest layer to the Earth.
c) The exosphere contains the ozone layer.
d) The stratosphere is the hottest layer.

Q3. Assertion (A): The ozone layer protects life on Earth by absorbing harmful ultraviolet (UV) radiation.

Reason (R): Ozone is present in the stratosphere, where it filters out UV rays.

- 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, but R is true.

Q4 If a meteor enters the atmosphere, in which layer will it burn up?

Q5 List any two advantages of the atmosphere.

Q6 What are the main features of the atmosphere?

Q7 a) Where does the thermosphere lie?

- b) Explain why the thermosphere is known as the ionosphere.

Q8 Draw and label the five main layers of the atmosphere—troposphere, stratosphere, mesosphere, thermosphere, and exosphere—and explain how they are different?

Q9 On the outline map of the world, mark and label the following.

- Seismic (Earthquake) Belts- 1) The Circum-Pacific Belt 2) The Mid- Atlantic Belt
3) The Alpine Belt(Mid- Continental Belt)

Q10 Case Study

Read the following extract and answer the following questions:

Atmosphere is the blanket of air which surrounds the Earth. The word 'atmosphere' is derived from the Greek word 'atmos' meaning 'vapour' and 'spaira' meaning 'sphere'. Hence, it means 'sphere of vapours'. It is held to Earth by the force of gravity.

The atmosphere had made the Earth a unique planet as it comprises gases which are essential for living, for example, oxygen for humans and animals and carbon dioxide for plants. It extends up to a height of about 1,600 km.

- a) What does the word 'atmos' mean?
b) From which language is the word 'atmosphere' derived?
c) _____is the blanket of air which surrounds the Earth.
d) The atmosphere had made the Earth a unique planet. (T/F)