



### I. Multiple Choice Questions

Choose the correct option to complete the sentences given below:

(i) Life exists in this zone:

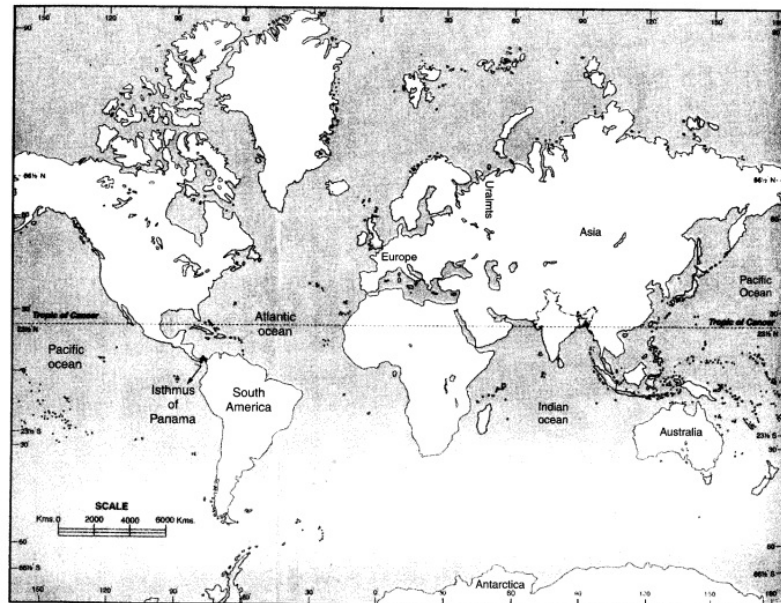
- (a) Lithosphere
- (b) Biosphere
- (c) Hydrosphere
- (d) Atmosphere.

(ii) It is the only continent through which the tropic of Cancer, the Equator and the Tropic of Capricorn pass:

- (a) Asia
- (b) Europe
- (c) Africa
- (d) North America.

(iii) It is world's longest mountain range

- (a) The Mt. Everest
- (b) The Ural Mountains
- (c) The Karakoram range
- (d) The Andes.



(iv) Which ocean is 'S' shaped?

- (a) The Pacific Ocean
- (b) The Atlantic Ocean
- (c) The Indian Ocean
- (d) The Arctic Ocean.

(v) Which one is not the layer of Atmosphere?

- (a) The Biosphere
- (b) The Trosphere
- (c) The Stratosphere
- (d) The Mesosphere.

(vi) It is called an island continent

- (a) South America
- (b) Antarctica
- (c) Africa
- (d) Australia.

Answer: (i)– (b), (ii)–(c), (iii)–(d), (iv)–(b), (v)–(a), (vi)–(d).

## II. Fill in the Blanks

Fill in the blanks with appropriate words to complete each sentence:

- (i) The South Pole lies almost at the centre of.....
- (ii) Africa is the second largest continent after .....
- (iii) The world's longest river the Nile flows through .....
- (iv) The hydrosphere comprises water in the form of..... , water and .....
- (v) The Arctic Ocean is connected with the Pacific Ocean by a narrow stretch of shallow water known as .....
- (vi) The Pacific Ocean is ..... in shape.
- (vii) The Coastline of Atlantic Ocean is highly .....
- (viii) Europe lies to the ..... of Asia.

Answer:

- (i) Antarctica
- (ii) Asia
- (iii) Africa
- (iv) ice, water vapour
- (v) Bering Strait
- (vi) circular
- (vii) indented
- (viii) west.

## III. True/False

State whether these sentences are true (T) or false (F).

- (i) The shape of the Pacific Ocean is almost triangular.
- (ii) A very small part of Africa lies in the Northern Hemisphere.
- (iii) The level of seawater remains the same everywhere.
- (iv) Air moves from low pressure to high pressure.
- (v) Carbon dioxide is an important constituent of air.
- (vi) The atmosphere is composed mainly of nitrogen and oxygen.

Answer:

- (i) False
- (ii) False
- (iii) True
- (iv) False
- (v) True
- (vi) True.

## IV. Matching Skill

Match the items in column A correctly with those given in column B.

Column A	Column B
(i) Asia	(a) Amazon river
(ii) Europe	(b) Mariana Trench
(iii) South America	(c) Arctic Circle
(iv) Lithosphere	(d) Tropic of Cancer
(v) Pacific Ocean	(e) Solid portion of the earth
<b>Ans.</b> (i)—(d), (ii)—(c), (iii)—(a), (iv)—(e), (v)—(b).	

## V. Very Short Answer Type Questions

1. Which is larger—Europe or Australia?

Answer: Europe is larger than Australia.

2. How is nitrogen a significant gas?

Answer: Nitrogen helps in the growth of living organisms.

3. What is the function of carbon dioxide?

Answer: Carbon dioxide absorbs the heat radiated by the earth and thus keeps the planet warm.

4. What is the height of the Mt. Everest?

Answer: The height of the Mt. Everest is 8,848 metres.

5. In which Hemisphere does Asia lie?

Answer: Asia lies in the Eastern Hemisphere.

6. Name the world's largest hot desert. Where is it located?

Answer: The Sahara desert. It is located in Africa.

7. How is North America linked to South America? [Imp.]  
Answer: North America is linked to South America by a narrow strip of land called the Isthmus of Panama.

8. Name the Oceans that surround the continent—North America.  
Answer: The Pacific Ocean, the Atlantic Ocean and the Arctic Ocean.

9. Which two oceans surround South America on the east and the west?  
Answer: On the east—the Atlantic Ocean On the west—the Pacific Ocean.

10. Name the research stations of India in Antarctica.  
Answer: Maitri and Dakshin Gangotri.

11. What percent of the earth is covered with water? [Imp.]  
Answer: More than 71 per cent of the earth is covered with water.

12. What percent of earth is covered with land?  
Answer: 29 per cent of earth is covered with land.

13. How much of the earth's water is found in the oceans?  
Answer: More than 97 percent of the earth's water is found in the ocean.

14. Why is the ocean water not fit for human use? [Imp.]  
Answer: It is because the ocean water is very salty.

15. Why do the mountaineers carry with them oxygen cylinders?  
[Imp]  
Answer: The mountaineers carry with them oxygen cylinders so that they can easily breathe at high altitudes.

16. What is the nature of the temperature?  
Answer: The temperature decreases as we go upwards.

17. Name the continents that surround the pacific ocean.  
Answer: Asia, Australia, North America and South America.

18. Which is the busiest ocean from the point of view of commerce?  
Answer: The Atlantic ocean is the busiest ocean from the point of view of commerce.

19. Mention two reasons of fast removal of soil from stops. [V. Imp.]  
Answer:  
(i) Cutting of forests for wood.  
(ii) Clearing land for agriculture.

20. What happened to Andaman and Nicobar islands during Tsunami? [V. Imp.]  
Answer: Parts of these islands were submerged under water during Tsunami.

21. What makes the water of lakes and rivers unsuitable for human use?  
Answer: Discharge of waste material into lakes and rivers makes the water unsuitable for human use.

22. Mention any two reasons of air pollution.  
Answer:  
(i) Emission from industries  
(ii) Emission from vehicles.

#### V. Short Answer Type Questions

1. Mention the three main components of the environment. [V. Imp.]  
Answer: The three main components of the environment are - the lithosphere, the atmosphere and the hydrosphere. The lithosphere

is the solid portion of the earth. The gaseous layers that surround the earth is the atmosphere. The atmosphere is made up of oxygen, nitrogen, carbondioxide and other gases. The hydrosphere refers to the big area of water that covers the earth's surface. This water is in the forms of ice, water and water vapour.

2. Write a short note on the 'hydrosphere'.

Answer: The hydrosphere refers to the water bodies that are found on the earth's surface. More than 71% of the earth is covered with water. This water is found in all its forms—ice, water and water vapour. Running water in oceans and rivers and in lakes, ice in glaciers, underground water and the water vapour in atmosphere. More than 97% of the earth's water is found in oceans. The ocean water is very salty, hence not of human utility. A large proportion of the rest of water is in the form of the icesheets and glaciers or under the ground. A very small percentage (0.03%) is available as fresh water. It is this water that we use.

3. Explain biosphere—the domain of life. [V. Imp.]

Answer: The biosphere is a narrow zone of the earth where land, water and air interact with each other to support life. It is in this zone that life exists. There are several species of organisms that vary in size from microbes and bacteria to large mammals. All living organisms including humans are linked to each other and to the biosphere for survival.

4. Give an account of the composition of atmosphere. Also discuss the importance of the components. [V. Imp.]

Answer: The atmosphere is composed mainly of nitrogen, and oxygen. Together they make up about 99% of clean, dry air. Nitrogen 78% and oxygen 21%. Apart from these two major gases, there are other gases too in the atmosphere. These gases include carbon dioxide, argon and others comprise 1% by volume. 'Oxygen is the breath of life while nitrogen helps in the growth of living organisms. Carbon dioxide absorbs heat radiated by the earth. In this way, it keeps the planet warm. It is also essential for the growth of plants.

5. What is atmosphere? Write about its different layers.

Answer: The atmosphere is a thin blanket of air that surrounds the earth. It provides us with the air we breathe and protects us from the harmful effects of sun's rays. The atmosphere extends upto a height of about 1,600 km. The atmosphere is divided into five layers based on composition, temperature and other properties. These layers are—the troposphere, the stratosphere, the mesosphere, the themosphere and the exosphere.

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