

TIME: 2 Hours

TOTAL MARKS: 80

GENERAL INSTRUCTIONS

1. Answers to this Paper must be written on the paper provided separately.
2. You will not be allowed to write during the first 15 minutes.
3. The time given at the head of this Paper is the time allowed for writing the answers.
4. Attempt all questions from Part I (Compulsory).
5. Attempt five questions Part II,
6. The intended marks for questions or parts of questions are given in brackets [].

PART - I (30 Marks)**Question 1**

- a) Why are we able to see only one side of the Moon from the Earth? [2]
- b) Mention two characteristics of the rotation of the Earth. [2]
- c) What is a magma chamber of a volcano? [2]
- d) What is an earthquake? [2]
- e) What are pollutants? Explain with the help of an example. [2]
- f) Which water body has the maximum salinity? Why? [2]
- g) Jet aircrafts fly in the stratosphere. Give reason. [2]
- h) How does the latitude affect temperature? [2]
- i) What is meant by faulting? [2]
- j) Name four types of equipment that are used to control air pollution. [2]

Question 2

On the outline map of the World, show the following:

- a) Temperate Deserts [2]
- b) Savanna Regions [1]
- c) Location of the Indian Ocean [1]
- d) Distribution of the Volcanic range in the South and North American Continent [1]
- e) Hudson Bay [1]
- f) The circulation of any one current in the Pacific Ocean [1]
- g) Mountain – Zagros [1]
- h) The Great Dividing Range [1]
- i) Plain – The Great Plain [1]

PART II (50 Marks)

Attempt any 5 Questions.

Question 3

- a) i. Name three types of rocks.
ii. Mention the formation of any one type of rock. [3]
- b) Why do we divide the world into major climatic regions? [2]
- c) What is lithification? [2]
- d) What local conditions produce variation in the Mediterranean type of climate? [3]

Question 4

- a) i. What is Richter scale? [2]
ii. State its use.
- b) i. State one effect of radioactive pollution on human health. [2]
ii. State one effect of radioactive pollution on the environment.
- c) i. What is a tsunami?
ii. How is it caused? [3]
- d) Global warming will increase the possibility of droughts. Do you agree? Give reason in support of your answer. [3]

Question 5

- a) i. What is rotation?
ii. Mention two characteristics of the rotation of the Earth. [2]
- b) Name the following: [2]
 - i. The highest summit on land with its height.
 - ii. The deepest bottom of the ocean with its height.
- c) i. What is meant by equinox?
ii. When does it happen? [3]
- d) Mention any three characteristics of the Arctic Ocean. [3]

Question 6

- a) i. What is denudation? [2]
ii. Name the processes involved in it?
- b) i. Describe the mantle. [3]
ii. Describe its two main characteristics.
- c) i. What is chemical weathering? [2]
ii. How does it affect the rocks?
- d) How were the Himalayans formed? Explain briefly. [3]

Question 7

- a) Which water body has the maximum salinity? Why? [2]
- b) There is a difference of four minutes per 1° longitude. Give reasons. [2]
- c) Discuss any three factors that influence ocean currents. [3]
- d) i. Define Great Circle with the help of an example. [3]
ii. Mention the main characteristics of a Great circle.

Question 8

- a) i. What is absolute humidity? [2]
ii. How is it expressed?
- b) State two chief characteristics of Block Mountains. [2]
- c) Discuss factors that determine the amount of rainfall. [3]
- d) Give two examples of each of the following: [3]
- Fold Mountains
 - Block Mountains
 - Rift Valley

Question 9

- a) How can we reduce pollution by changing the raw materials? [3]
- b) i. What is ozone layer? [2]
ii. State its importance.
- c) How do filters work? [2]
- d) What is the greenhouse effect? [3]

Question 10

- a) What are secondary pollutants? Explain with the help of an example. [2]
- b) State Ferrel's Law. [2]
- c) Why is it harmful to dispose off household wastes into water bodies? [3]
- d) Discuss the seasonal shifting of the pressure belts during summer and winter season in the Northern and the Southern Hemisphere. [3]