



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2023-24
HALF YEARLY EXAMINATION

CLASS: IX

SUBJECT: GEOGRAPHY (SET A)

FULL MARKS: 80

TIME: 2 HOURS

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Part I is compulsory. All questions from Part I are to be attempted.

A total of five questions are to be attempted from Part II.

The marks intended for questions are given in brackets [].

This paper consists of seven printed pages.

PART I (30 marks)

(Attempt all questions from this Part.)

Question 1

Answer the following questions:

- | | |
|---|-----|
| (i) Mention any two characteristics of sedimentary rocks. | [2] |
| (ii) What is the difference between tributaries and distributaries? | [2] |
| (iii) Define volcano. | [2] |
| (iv) Write any two constructive effects of earthquakes. | [2] |
| (v) What is the difference between waves and tides? | [2] |

Question 2

On the outline map of world provided:

- | | |
|---|-----|
| (i) Shade and label Caribbean Sea. | [1] |
| (ii) Shade and label North Sea. | [1] |
| (iii) Mark and label the Mongolian Plateau. | [1] |
| (iv) Shade and label Gulf of Guinea. | [1] |
| (v) Shade and label Iranian Plateau. | [1] |
| (vi) Mark and label the Drakensberg. | [1] |
| (vii) Shade and label the Andes. | [1] |
| (viii) Mark and label the river Murray. | [1] |
| (ix) Shade and label the river Ob. | [1] |
| (x) Mark and label the Rockies. | [1] |

Question 3

Choose the correct answers to the questions from the given option.
(Do not copy the question, write the correct answers only.)

[10]

(i) What is the thickness of the biosphere?

- (a) 15 km
- (b) 17 km
- (c) 20 km
- (d) 25 km

(ii) Which of the following is correct?

- (a) Latitude degrees are measured from the Prime meridian.
- (b) The earth covers 1° longitude every 5 minutes.
- (c) The Standard Time is obtained by the overhead sun at noon.
- (d) All longitudes converge at poles.

(iii) The time when the sun begins to cast its light in the sky is known as _____.

- (a) Circle of illumination
- (b) Dawn
- (c) Solstice
- (d) Dusk

(iv) What is the diameter of the core?

- (a) 60 km
- (b) 2900 km
- (c) 7000 km
- (d) 410 km

(v) Which of the following mountains is the result of orogenic movements?

- (a) Rockies
- (b) Black Forest
- (c) Vindhya
- (d) Vosges

(vi) Which of the following is NOT associated with volcanoes?

- (a) Geyser
- (b) Tsunami
- (c) Caldera
- (d) Seismic waves

- (vii) _____ weathering is more rapid in hot deserts.
- (a) Biological
(b) Physical
(c) Chemical
(d) Organic
- (viii) The term used for large-scale movement of loose materials down the slope on account of gravity.
- (a) Weathering
(b) Erosion
(c) Denudation
(d) Mass Wasting
- (ix) _____ is found in the middle course of a river.
- (a) Waterfall
(b) Delta
(c) Meander
(d) V-shaped Valley
- (x) The ocean current which is also known as Black Stream is _____.
- (a) North Atlantic Drift
(b) Kuroshio
(c) Oyashio
(d) Gulf Stream

PART II (50 marks)
(Attempt any five questions from this part.)

Question 4

- (i) Explain any two features of the earth that make it a ‘Unique Planet’. [2]
- (ii) Calculate the local time at Chennai (80°E) when it is 2:00pm at Greenwich. [2]
- (iii) Give reasons for the following: [3]
- (a) The Earth is not a perfect sphere.
(b) The lines of latitude are not of equal length.
(c) The city of Narvik, Norway located at 70°N experiences very low temperatures.
- (iv) Draw a well labelled diagram of important parallels of latitudes. [3]

Question 5

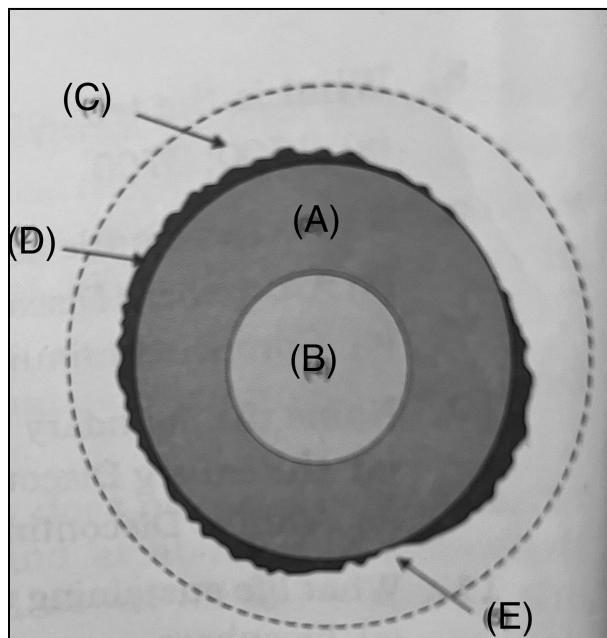
- (i) Describe any two effects of rotation of the earth. [2]
(ii) Distinguish between rotation and revolution of the earth. [2]
(iii) Argentina's goalkeeper, Emiliano Martinez, who was key to the South American team winning the 2022 FIFA World Cup, arrived in Kolkata on Monday to a warm welcome from local fans. The supporters cheered the footballer after he made his presence felt at the Netaji Subhas Chandra Bose International Airport, Kolkata.

- Outlook, 3 July 2023.

- (a) What seasonal differences the footballer might have experienced in India?
(b) Explain the reason for the seasonal differences he experienced in India. [3]
(iv) Draw a diagram showing a circle of illumination and label it. [3]

Question 6

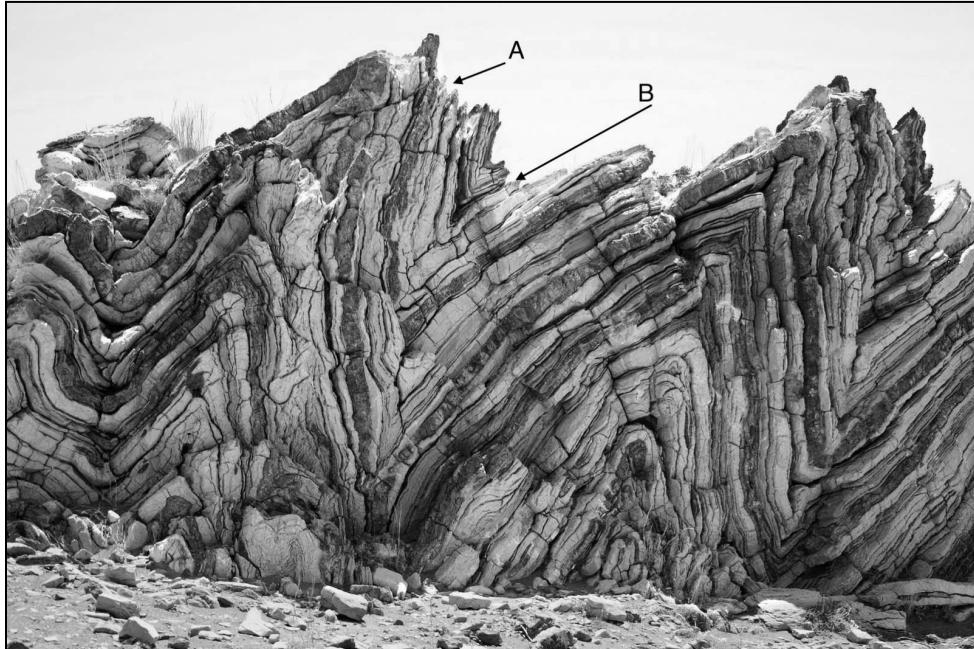
- (i) Distinguish between Sial and Sima.
(ii) Study the diagram given below and name the features labelled (A), (B), (C) and (D). [2]



- (iii) Name the following:
(a) The boundary between the crust and mantle.
(b) The seismic waves which do not pass through liquids.
(c) The partially molten layer at the depth of 100-410 km. [3]
(iv) State any three characteristics of Core of the earth. [3]

Question 7

- (i) Write two differences between Young fold mountains and Old fold mountains. [2]
(ii) Study the picture given below and answer the questions that follow: [2]



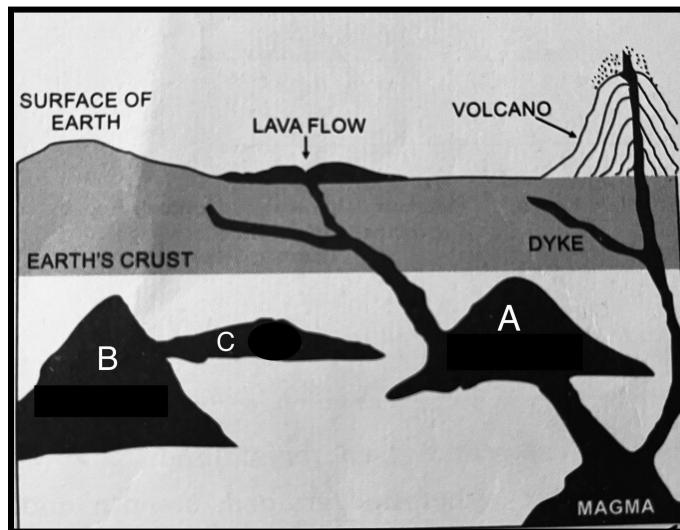
- (a) What are the geographic terms used for the irregular wave-like formations as a result of lateral compression of the earth's crust labeled (A) and (B)? [2]
- (b) Name the landforms formed by these features.
- (iii) Give geographical reasons for the following: [3]
- (a) Exogenic forces are called destructive forces.
 - (b) There are many lakes in the Great Plains of the USA.
 - (c) Residual mountains are called mountains of denudation.
- (iv) Define the following: [3]
- (a) Polder
 - (b) Horst mountains
 - (c) Plateau

Question 8

- (i) Differentiate between igneous and metamorphic rocks on the basis of its formation. [2]
- (ii) How are calcareous sedimentary rocks formed? Give one example. [2]
- (iii) Explain three processes involved in lithification. [3]

(iv) Study the diagram given below and answer the questions that follow:

[3]



(a) Define the feature labelled (B).

(b) How are dykes formed?

(c) Name the feature labelled (C).

Question 9

(i) Write a short note on the Circum Pacific Belt.

[2]

(ii) State any two constructive effects of volcanoes.

[2]

(iii) State the geographical terms for the following:

[3]

(a) A fountain of hot water and steam that escapes when underground water comes into contact with hot volcanic rocks.

(b) Energy produced from high levels of heat due to volcanic activity inside the earth.

(c) The scale which measures the power of earthquakes on a scale of 1 to 9.

(iv) Tens of thousands of people have been killed and scores more injured by a huge earthquake which struck south-eastern Turkey, near the Syrian border, in the early hours of Monday morning. The earthquake, which hit near the town of Gaziantep, was closely followed by numerous aftershocks- including one quake which was almost as large as the first.

-BBC.com

(a) What geographic term can be given to Gaziantep where the effect of the earthquake was maximum?

(b) Explain how plate tectonics causes earthquakes.

[3]

Question 10

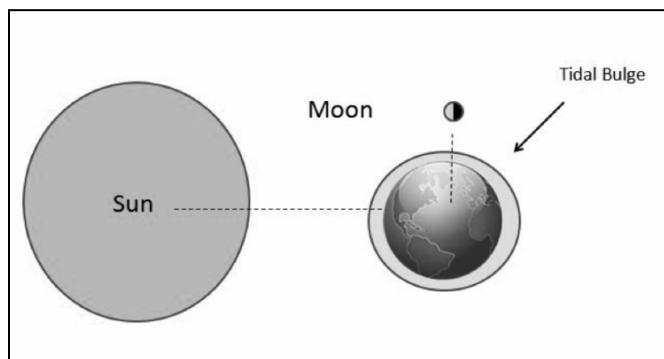
- (i) Write any two characteristics of weathering. [2]
(ii) Explain the process of carbonation. [2]
(iii) Define the following terms: [3]
- (a) Granular disintegration
 - (b) Hydration
 - (c) Exfoliation
- (iv) What is physical weathering? What are the factors responsible for physical weathering? [3]

Question 11

- (i) How does the volume of water affect erosion, transportation and deposition work of a river? [2]
(ii) What are barchans? How are they formed? [2]
(iii) Give geographical reasons for the following: [3]
- (a) The Delta is formed in the lower course of a river.
 - (b) The shifting of sand dunes can be checked by the growth of vegetation.
 - (c) Wind action is more in the deserts.
- (iv) Draw a well labelled diagram of a waterfall. [3]

Question 12

- (i) Study the diagram given below and answer the questions that follow: [2]



- (a) What type of tide is shown in the given picture?
(b) What causes this tide?
- (ii) What is the difference between apogee and perigee? [2]
(iii) Give geographical reasons for the following: [3]
- (a) The western Europe is warmer than usual.
 - (b) The Oyashio Current forms the richest fishing ground in the world.
 - (c) Alaska's southern coast experiences mild weather.

(iv) (a) What are ocean currents?

(b) Write two differences between warm currents and cold currents.

[3]