



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2024-25
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 six printed pages.

PART I (30 marks)

(Attempt all questions from this Part.)

Question 1

On the outline map of the world provided:

[10]

- (i) Shade and label Gulf of Carpentaria.
- (ii) Mark and label Rockies Mountain.
- (iii) Mark and label Strait of Malacca.
- (iv) Mark and name the longest river of the world.
- (v) Mark and label Mongolian Plateau.
- (vi) Mark and label River Irrawaddy.
- (vii) Mark and label River Murray.
- (viii) Mark and label Zagros Mountains.
- (ix) Mark and label River Ganga.
- (x) Shade and label Canadian Shield.

Question 2

Answer the following questions briefly:

[5 x 2 = 10]

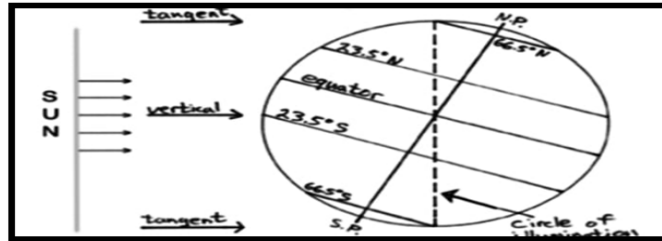
- (i) At town A (10°E) time is 12 noon and at town B the time is 4:00pm. Find out the longitude of town B.
- (ii) Differentiate between Structural Plains and Depositional Plains.
- (iii) Sam visited the Amazon basin for the first time. He was having a boat ride and was operating a drone to see the top view of the river and adjoining landmasses. He was surprised to see that the shape of the Amazon river bends like the moving body of a snake.
 - (a) What are these bends called?
 - (b) In which stage of the rivers such bends are formed?
- (iv) State any two characteristics of igneous rocks.
- (v) "The coast of Japan has a rich fishing ground." Why?

Question 3

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

[10]

- (i) The polar diameter of the Earth is _____ km.
(a) 12,756 (b) 12,714
(c) 12,716 (d) 12,764
- (ii) Local Time differs from place to place because of the variation in _____.
(a) Seasons (b) Latitudes
(c) Time of sunrise (d) Longitude
- (iii) Which phenomenon of the northern hemisphere is depicted in the given picture?



- (a) Winter Solstice (b) Summer Solstice
(c) Spring Equinox (d) Autumnal Equinox
- (iv) Sial floats on Sima form the basis of _____ Theory.
(a) Plate Tectonic (b) Continental Drift
(c) Core Accretion (d) Instability
- (v) Which of the following is NOT the correct combination?
(a) Alps : Fold Mountain (b) Vosges : Block Mountain
(c) Plateau of Tibet : Volcanic Plateau (d) Gangetic Plains : Alluvial Plains
- (vi) Which of the following is a Plutonic rock?
(a) Conglomerate (b) Pumice
(c) Marble (d) Slate
- (vii) Which of the following statements is correct?
(a) Exogenous forces cause volcanoes to erupt.
(b) Volcanoes form metamorphic rocks.
(c) Volcanic eruption give rise to various landforms
(d) Mt. Kilimanjaro is an active volcano.
- (viii) Which of the following factors is responsible for the Koyna dam earthquake?
(a) Plate Tectonics (b) Anthropogenic factor
(c) Folding and Faulting (d) Volcanic Eruption
- (ix) Assertion(A): Natural levees and deltas are common features of the lower course of the river.
Reason (R): Simultaneous erosion and deposition takes place in the lower course of the river.
(a) A is correct and R is the correct explanation of A.
(b) A is correct but R is not the correct explanation of A.
(c) A is correct but R is incorrect.
(d) A is incorrect but R is correct.
- (x) The period of nearest distance between the moon and the earth is called _____.
(a) Apogee (b) Perihelion
(c) Perigee (d) Aphelion

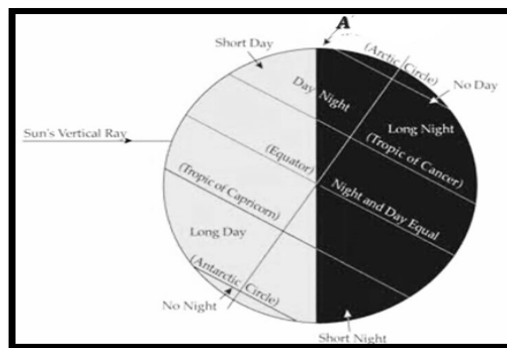
PART - II (50 marks)
(Attempt any five questions)

Question 4

- (i) “Earth is unique as it has the lithosphere.” In the light of the given statement, state any two roles of the lithosphere in making Earth a habitable planet. [2]
- (ii) With reference to the Temperate Zone, answer the following:
 - (a) State the latitudinal extent of this zone.
 - (b) Almost half of the world's population lives in this zone. Why? [2]
- (iii) Give reasons for the following statements: [3]
 - (a) Oceans reduce the day- night temperature variations.
 - (b) Earth is not a perfect sphere.
 - (c) 1° latitude is equal to 111 km, whereas 1° longitude in terms of distance varies.
- (iv) With reference to time zone, answer the following questions: [3]
 - (a) What is the need of the Time Zone?
 - (b) How much longitudinal extent is covered by each time zone?
 - (c) Name two countries have five and six time zones respectively.

Question 5

- (i) “The Earth’s rotation is changing speed: should we be worried? Earth's changing spin is threatening that a second will be lost from our clocks by 2029 as the Earth is spinning a little faster than before according to a study published Wednesday in the journal Nature.” 27 March 2024, www.cbsnews.com/news [2]
 - (a) What is the speed of rotation of the Earth at the equator?
 - (b) Why does Kuala Lumpur rotate faster than London ?
- (ii) Differentiate between Rotation and Revolution. [2]
- (iii) Give reasons for the following statements: [3]
 - (a) Winds get deflected from their normal paths.
 - (b) Chennai experiences the midday sun twice a year while Delhi never experiences it even once in a year.
 - (c) The year 2028 will be a leap year.
- (iv) Study the following diagram and answer the following questions: [3]



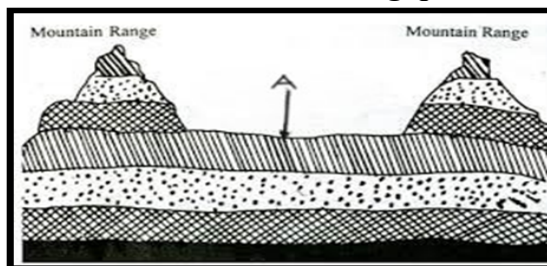
- (a) Which geographical term is used to describe the phenomenon marked A?
- (b) Define the phenomenon that you have mentioned.
- (c) What will be the effect on the length of day and night, if the Earth’s axis was not inclined?

Question 6

- (i) Differentiate between Mohorovicic Discontinuity and Gutenberg Discontinuity. [2]
- (ii) Name the following: [2]
 - (a) The other name of Lower Mantle.
 - (b) Continuous zone of basaltic rocks forming the ocean floor.
- (iii) Give reasons for the following statements: [3]
 - (a) Core is responsible for Earth's magnetic field.
 - (b) Temperature gradually rises towards the interior of the Earth.
 - (c) Asthenosphere is also called the lower velocity zone.
- (iv) With reference to crust, answer the following questions: [3]
 - (a) Name the two subdivisions of the crust.
 - (b) Which subdivision of the crust constitutes the continental floor and ocean floor respectively?
 - (c) Why is it called the mineral skin of the earth?

Question 7

- (i) Give reasons for the following statements: [2]
 - (a) Alluvial plains are called the 'granaries of the world.'
 - (b) Residual mountains are called 'mountains of denudation.'
- (ii) Study the given picture and answer the following questions: [2]



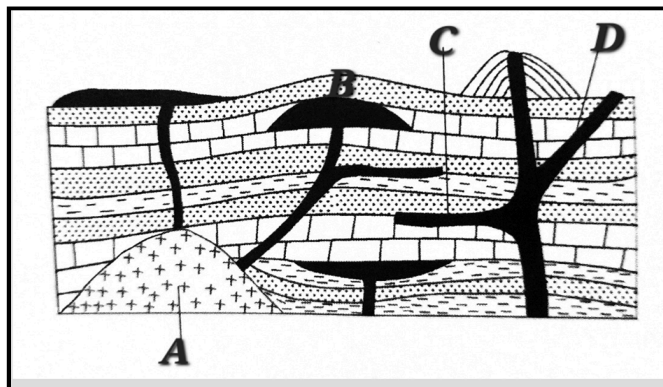
- (a) Identify and define the landform marked A.
- (b) Give two examples of this landform.
- (iii) Mahesh went to Madhya Pradesh for a trip where he saw a set of mountains which do not have sharp peaks but mostly flat and runs parallel to River Narmada. [3]
 - (a) Name the type of mountain that Mahesh came across.
 - (b) How are they formed?
- (iv) State any three characteristics of the young fold mountains. [3]

Question 8

- (i) Rahul has a hobby of collecting various types of rocks. In his collection there is a type of rock which has stratified minerals in it. [2]
 - (a) Which type of rocks has been referred to here?
 - (b) State one property of such rocks other than being stratified.
- (ii) State any two economic significance of rocks. [2]
- (iii) State the metamorphosed form of the following: [3]
 - (a) Sandstone
 - (b) Granite
 - (c) Shale
- (iv) (a) Intrusive igneous rocks have larger crystals. Justify the statement.
- (b) How are Conglomerate and Breccia formed? [3]

Question 9

- (i) State any two destructive effects of volcanoes. [2]
- (ii) Classify volcanic cones on the basis of type of materials and state the basic difference between the two. [2]
- (iii) Study the given picture and answer the following questions: [3]

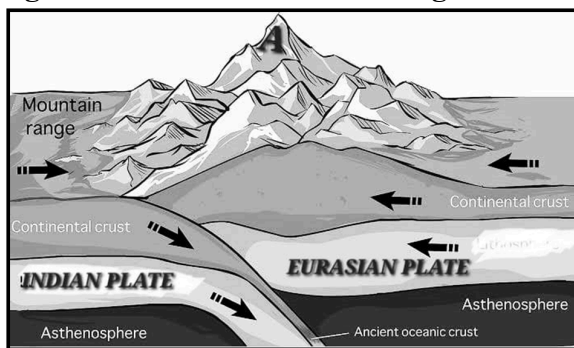


- (a) Name the features marked as A, B, C and D.
- (b) How is feature A formed?
- (iv) Draw a neat labelled diagram of a composite cone. [3]

Question 10

- (i) “Turkey earthquake: 'Most powerful in nearly a century' kills over 1,300 people - A powerful 7.8 magnitude earthquake rocked southeastern Turkey and northern Syria early Monday, toppling hundreds of buildings and killing more than 1,300 people.”
Hindustan Times, Feb 06, 2023. [2]

- (a) Which scale is used to measure intensity of earthquakes?
- (b) State one constructive effect of an earthquake.
- (ii) Name the following: [2]
 - (a) Seismic sea waves.
 - (b) Point of origin of the earthquake.
- (iii) Give reasons for the following statements: [3]
 - (a) Distribution of earthquakes coincides with the distribution of volcanoes.
 - (b) Earthquakes occur primarily along the tectonic plate boundaries.
 - (c) Maximum damage of an earthquake occurs near the epicentre.
- (iv) Study the following diagram and answer the following: [3]



- (a) Name the landform marked as A.
- (b) Explain the role of Plate tectonics in relation to the formation of the landform marked A.

Question 11

- (i) In the Thar desert of Rajasthan often some migratory sand dunes are observed. These are crescent in shape and are a very common desert feature . [2]
(a) What are those crescent shaped dunes called?
(b) How are migrating dunes dangerous?
- (ii) How does frost action cause weathering? [2]
- (iii) With reference to chemical weathering, answer the following questions: [3]
(a) On which rocks chemical weathering is most active?
(b) Name process by which feldspar becomes a mass of clay or kaolin.
(c) Why is chemical weathering faster in tropical regions?
- (iv) Draw a neat and labelled diagram of a Waterfall. [3]

Question 12

- (i) Classify the following currents into Warm and Cold currents: [2]
(a) North Atlantic Drift
(b) Oyashio Current
(c) Labrador Current
(d) Kuroshio Current
- (ii) Write any two effects of Ocean Currents. [2]
- (iii) Give geographical reasons for the following statements: [3]
(a) The Alaskan coast remains ice free in the winters.
(b) The Moon exerts greater gravitational pull on Earth's oceans than the Sun.
(c) Coast of Newfoundland is found to be dangerous for navigation.
- (iv) Draw a neat and labelled diagram of a Neap Tide. [3]