



DELHI PUBLIC SCHOOL NEWTOWN

**SESSION 2024-25
FINAL EXAMINATION**

**CLASS: IX
SUBJECT: GEOGRAPHY (SET A)**

**FULL MARKS: 80
TIME : 2 HOURS**

Answers to this Paper must be written on the answer sheet 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 intended marks for questions or parts of questions are given in brackets [].

This paper consists of five 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 the River Hwang Ho.**
- (ii) Shade and label the Caspian Sea.**
- (iii) Shade and label the driest desert of the world.**
- (iv) Shade and label the longest river of the world.**
- (v) Shade and name the temperate grasslands of Australia.**
- (vi) Shade and label the Ural Mountains.**
- (vii) Shade and label the Canadian shield.**
- (viii) Shade and label the Bering strait.**
- (ix) Shade and label the plateau called 'the roof of the world'.**
- (x) Shade and name the River Zaire.**

Question 2

Answer the following questions:

[2X5=10]

- (i) Which natural region is known as the "lungs of the World"? Name two countries located in this region.**
- (ii) "Despite plastic being lightweight and durable, pollution caused by it is one of the biggest threats to the environment". Why?**
- (iii) State two differences between sill and dyke.**
- (iv) Why are metamorphic rocks more common in the regions of mountain building?**
- (v) What is the significance of the North and South poles in the geographic grid?**

Question 3

Choose the correct option:

[1X10=10]

- (i) The equatorial diameter of the Earth is:**
(a) 12756 km (b) 12714 km (c) 40076 km (d) 4000 km
- (ii) In which part of India, mid-day sun can be seen overhead twice a year?**
(a) Delhi (b) Chennai (c) Punjab (d) Prayagraj

(iii) Tropical cyclones are known by different names in different regions. Out of the following which is not correct?

- (a) Depression in the Bay of Bengal (b) Typhoons in China
(c) Hurricanes in India (d) Tornadoes in USA

(iv) Depression formed at the mouth of the volcano is known as:

- (a) Crater (b) Cinder (c) Conduit (d) Vent

(v) Steppes: Euro-Asia::Veld : _____.

- (a) South America (b) Australia
(c) North America (d) South Africa

(vi) Which type of pollution is depicted in the given picture?



- (a) Air pollution (b) Noise pollution
(c) Water pollution (d) Soil pollution

(vii) What is the primary cause of most earthquakes?

- (a) Volcanic eruptions (b) Landslides
(c) Movement of tectonic plates (d) Heavy rainfall

(viii) Assertion (A): Extrusive igneous rocks are composed of fine grains

Reason (R): Extrusive igneous rocks are usually dark coloured

- (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

(ix) The Grand Canyon is an example of:

- (a) Wind erosion (b) River erosion
(c) Glacial deposition (d) Volcanic eruption

(x) Which of the following is an example of fold mountain?

- (a) Vindhya (b) Vosges (c) Andes (d) Satpura

Part II (50 marks)

(Attempt any five questions)

Question 4

- i) Imagine the Earth had no axial tilt. How would this affect the length of day and night and occurrence of seasons? [2]
- ii) A city is located at 10°N and 70°E. Calculate the time difference between this city and Greenwich. [2]
- iii) You are an astronaut on a mission to study Earth's neighbouring planets. As you orbit the Earth, you observe its blue oceans, green landmasses and white clouds. Then you compare it to the barren, rocky surface of Mars and the scorching atmosphere of Venus. State any three unique features of the Earth that make it habitable compared to Mars and Venus? [3]
- iv) Give reasons for the following: [3]
- a) The Earth is flattened at the poles and bulged at the equator.
- b) A person gains time as he travels towards east.
- c) The speed of rotation of the Earth at Singapore is much faster than that at Russia.

Question 5

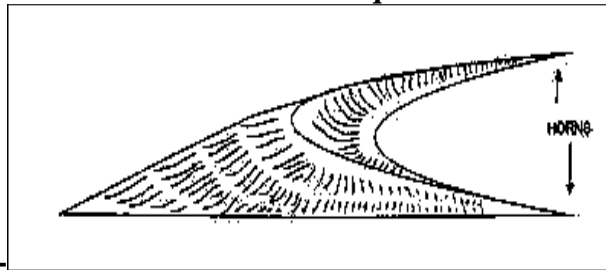
- i) Seismic wave travels through the Earth and suddenly decreases in velocity.
 - a) What can be inferred about the layer it has entered? [2]
 - b) State one characteristics of this layer. [2]
- ii) Differentiate between old fold mountains and young fold mountains (2 points) [2]
- iii) Give reasons for the following: [3]
 - a) The Nilgiri hills have been lowered.
 - b) Fold mountains are prone to earthquakes and volcanic eruptions.
 - c) Alluvial plains are the most fertile plains.
- iv) Draw a neat and labeled diagram to show the structure of the Earth. [3]

Question 6

- i) Write two differences between Acidic igneous rocks and Basic igneous rocks [2]
- ii) “In 2010, the Eyjafjallajokull volcano in Iceland erupted, causing massive disruptions to air travel across Europe”. [2]
 - a) How did this volcanic eruption cause disruption in air travel?
 - b) Mention the adverse effects of volcanic eruption other than the one mentioned above.
- iii) Give reasons for the following: [3]
 - a) Earthquakes are frequent in Japan.
 - b) Volcanic eruptions are beneficial for the agricultural economy.
 - c) Sedimentary rocks are also called stratified rocks.
- iv) Imagine you were sitting in the balcony of a seaside resort, when you suddenly noticed a surge in the height of the waves. [3]
 - a) What are these high waves known as?
 - b) What could have caused this?
 - c) How does it affect the coastal areas?

Question 7

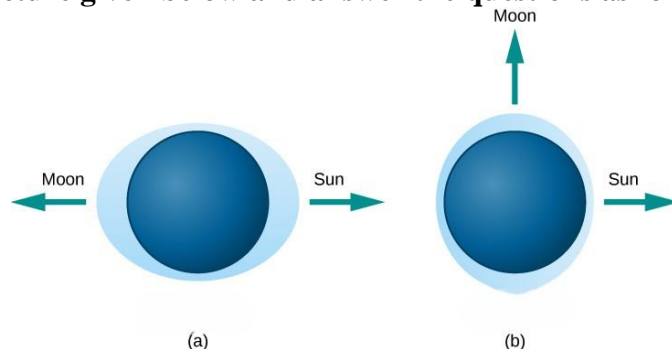
- i) During a school field trip to a mountain region, the students notice cracks in large rocks near the trail. The guide explains that these cracks are formed due to the repeated freezing and thawing of water during the winter months. [2]
 - a) What type of weathering is being described in this scenario?
 - b) In which latitude is this prevalent?
- ii) Study the picture as given below and answer the questions that follow: [2]



- a) Identify the feature.
- b) Name the agent responsible for its formation.
- iii) You are exploring a limestone region and discover large caves formed within the rock. [3]
 - a) What type of weathering is primarily responsible for their creation?
 - b) How does weathering contribute to the formation of these caves?
- iv) Give reasons for the following: [3]
 - a) Human activities encourage weathering.
 - b) Landslides are more common during the rainy season.
 - c) Chemical weathering is more effective in humid areas.

Question 8

- i) “At Cape Hatteras the ocean current gets deflected eastward under the influence of rotation of the Earth and the Westerlies”. [2]
a) Identify the current mentioned in the above lines.
b) How does it affect the climate of North western Europe?
- ii) Mention any two effects of ocean currents. [2]
- iii) Study the picture given below and answer the questions as follows: [3]



- a) State the name of the two types of tides shown in the above picture.
b) How are they different from each other?
- iv) Give reasons for the following: [3]
a) The moon is responsible for the formation of tides to a greater extent than the sun.
b) Ships prefer to sail along the ocean currents.
c) Newfoundland has thick fog all the year round.

Question 9

- i) Identify the name of the winds: [2]
a) The dry wind which blows down the slope of the Alps.
b) The wind which blows down the slope of the Rockies in North America.
- ii) A farmer notices that his crops in a tropical region grow faster than in a temperate region. How would you explain this difference based on the rate of insolation? [2]
- iii) Give reasons for the following: [3]
a) Delhi has a greater range of temperature than Chennai.
b) Global warming can result in a boom in agricultural crop yields.
c) The sky appears red during sunrise and sunset.
- iv) “Scientists have observed a thinning of the ozone layer above the polar regions, particularly over Antarctica. This has been linked to the release of chlorofluorocarbons used in refrigerants and aerosol sprays.” [3]
a) What is the thinning of ozone layer known as?
b) Why is thinning of ozone more over Antarctica?
c) What are the consequences of the depletion of ozone layer?

Question 10

- i) “The severe cyclonic storm Remal started its landfall process between Sagar Island in West Bengal and Khepupara in Bangladesh around 9.15 am on Sunday as it intensified and move northwards. By 11.30 pm, the eye of the cyclone touched the land”.
-The Hindu (published May 2, 2024)
- a) Identify the type of cyclone as given above.
b) How are cyclones different from anticyclones? [2]
- ii) During a summer afternoon, a person feels a sudden breeze near the coast. What scientific explanation would you provide for this phenomenon? [2]

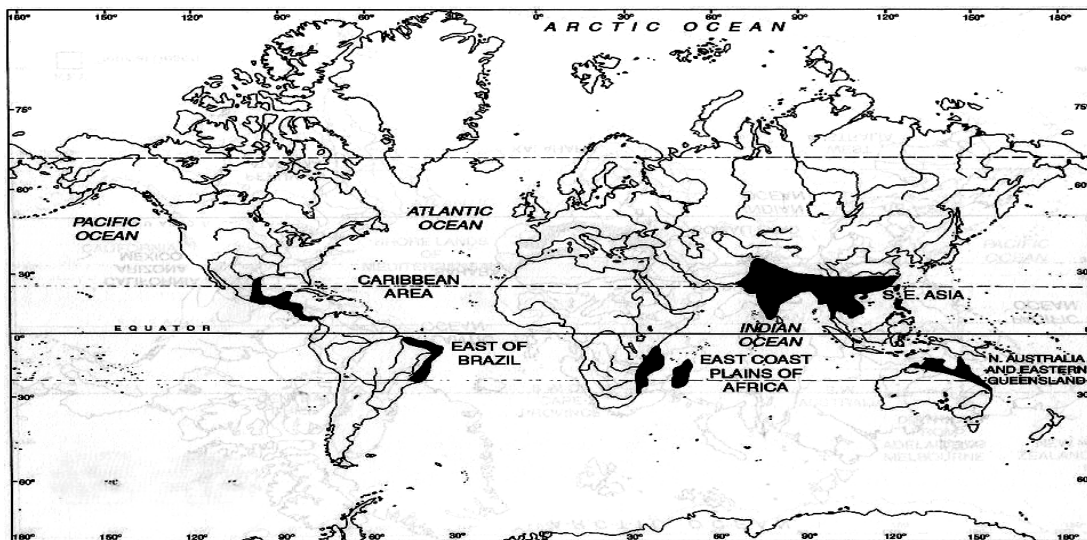
- iii) Give reasons for the following: [3]
- The equatorial low pressure belt is known as the belt of Doldrums.
 - It is difficult to dry clothes outdoors on a humid day.
 - The leeward side of the Western ghats is relatively dry.
- iv) When condensation takes place below 0°C, water vapour freezes into minute crystals of ice on objects near ground such as leaves, grass or rock particles. [3]
- Identify the form of condensation as mentioned above.
 - How does it affect the farmers?
 - Name the form of condensation that takes place when the temperature is above 0°C.

Question 11

- i) State one effect of each pollutant on human health: [2]
- Lead
 - Mercury
- ii) “The Taj Mahal is wasting away and it may soon hit the point of no return”. [2]
- What has resulted in the corrosion of this iconic archaeological structure?
 - Mention one measure to prevent the phenomenon.
- iii) A local lake is dying due to excessive algae growth caused by pollutants. [3]
- Name the process associated with the above phenomenon.
 - Define the phenomenon and mention the cause behind it.
- iv) Mention any three steps that can be taken by you as a student to reduce pollution. [3]

Question 12

- i) How does the seasonal climate in the Savanna affect the economic activities in the region? [2]
- ii) State two important characteristics of the natural vegetation found in the Equatorial region. [2]
- iii) Give reasons for the following: [3]
- The temperate grasslands are known as the ‘granaries of the world’.
 - The Equatorial region is sparsely populated.
 - The Tundra region is not suitable for cultivation of crops.
- iv) Study the given map and answer the questions as follows: [3]



- Which natural region is shown in the given map?
- State any two countries located in this region.
- Mention any two crops cultivated in this region.

