



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2023-24**  
**FINAL 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 Hudson Bay.
- (ii) Shade and label Black Sea.
- (iii) Shade and label River Niger.
- (iv) Shade and name an important tributary of River Murray.
- (v) Mark and label Mongolian Plateau.
- (vi) Mark and label Great Dividing Range.
- (vii) Shade and name the Temperate grasslands of South America.
- (viii) Shade and label the Tropical Monsoon region of Asia.
- (ix) Shade and label the Mediterranean region of Africa.
- (x) Mark and label Gulf of Carpentaria.

**Question 2**

**Answer the following questions briefly:**

**[10]**

- (i) State any two effects of the rotation of the Earth.
- (ii) Calculate the local time at New York ( $74^{\circ}\text{W}$ ), when it is noon at Greenwich.
- (iii) Sohini visited Darjeeling and saw the Himalayas for the first time. She was amazed to see the up and down folded structures of the mountain range.
  - (a) What type of fold mountains are the Himalayas?
  - (b) What are the upfold and downfold structures of a fold mountain called?
- (iv) Distinguish between Genetic and Somatic variation.
- (v) Name the two types of vegetation found in the Tropical Monsoon type of climate and give examples of trees found.

**Question 3**

Choose the correct answers to the questions from the given options.

[10]

(Do not copy the question, write the correct answers only.)

- (i) \_\_\_\_\_ refers to a self-regulating and self-sustaining unit of the biosphere.  
(a) Ecosystem  
(b) Food Cycle  
(c) Biome  
(d) Ecology
- (ii) Which of the following is a Great Circle?  
(a) Tropic of Cancer  
(b) Tropic of Capricorn  
(c) Equator  
(d) Antarctic Circle
- (iii) On 22nd of December, Australia will experience \_\_\_\_\_.  
(a) Winter Solstice  
(b) Autumnal Equinox  
(c) Summer Solstice  
(d) Spring Equinox
- (iv) Mohorovicic discontinuity is a boundary found between \_\_\_\_\_ and \_\_\_\_\_.  
(a) Crust and Core  
(b) Crust and Mantle  
(c) Mantle and Core  
(d) Core and Gutenberg Discontinuity
- (v) Which of the following is a Block Mountain?  
(a) Nilgiris  
(b) Catskill hills  
(c) Black Forest  
(d) Rockies
- (vi) Koyna earthquake in Maharashtra is an example of which of the following causes of earthquake?  
(a) Volcanoes  
(b) Plate tectonics  
(c) Folding & Faulting  
(d) Man-made causes
- (vii) Expansion of minerals on coming into contact with rainwater is called \_\_\_\_\_.  
(a) Hydration  
(b) Oxidation  
(c) Carbonation  
(d) Solution

(viii) Assertion (A): Bioaccumulation is the phenomenon of concentrated toxic deposition of the higher trophic level in a food chain.

Reason (R): Organisms at the higher trophic levels consume a large amount of organisms at the lower trophic levels.

- (a) Both A and R are correct and R is the correct explanation of A.
- (b) Both A and R are correct but R is not the correct explanation of A.
- (c) A is correct but R is incorrect.
- (d) R is correct but A is incorrect.

(ix) The average atmospheric pressure at sea levels is \_\_\_\_\_.

- (a) 1014.5 mb
- (b) 1015.2 mb
- (c) 1013.25 mb
- (d) 1017.75 mb

(x) Which of the following is called the 'Natural Cattle Country'?

- (a) Pampas
- (b) Savanna
- (c) Prairies
- (d) Velds

#### PART - II (50 marks)

*(Attempt any five questions)*

##### Question 4

- (i) Explain any two features that make Earth as the Home of Humankind. [2]
- (ii) Distinguish between Solstice and Equinox. [2]
- (iii) Give reason for the following statements: [3]
  - (a) The distance between two lines of longitude is maximum at the Equator.
  - (b) The International Date Line goes zig-zag near some islands in the Pacific Ocean.
  - (c) Kuala Lumpur rotates faster on the axis than London.
- (iv) With reference to Torrid zone, answer the following questions: [3]
  - (a) State its latitudinal extent.
  - (b) What kind of climate does this zone experience and why?

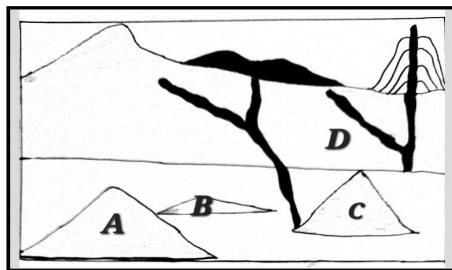
##### Question 5

- (i) How is the formation of the Great Plains of the USA and the Coromandel plains of India different? [2]
- (ii) Akash visited his native village in Maharashtra during the vacation. On coming back at school, the teacher asked him about his holiday visit during the vacation to which he talked about his visit. The teacher said that Maharashtra is a part of the Peninsular plateau which is formed out of basaltic rock.
  - (a) What kind of plateau is the Peninsular plateau of India?
  - (b) Give any two examples of such a plateau found in the world. [2]
- (iii) Give reasons for the following statements: [3]
  - (a) Relict mountains are also called the mountain of denudation.
  - (b) Exogenic forces are described as destructive forces.
  - (c) The inner core of the earth is in a solid state.

- (iv) Name the layer of the earth which is also called Lithosphere? State any two characteristics of this layer. [3]

**Question 6**

- (i) State any two economic significance of rocks. [2]
- (ii) How are caldera lakes formed? Give an example. [2]
- (iii) “A 7.6 magnitude earthquake struck Japan on Jan 1 2024, around 2:10 am prompting orders for residents to evacuate affected coastal areas that experienced intense uplift up to 820 feet, which is greater than the length of two American football fields.”  
4th Jan 2024, hindustantimes.com
- (a) Name the scale used to measure the intensity of the earthquake based on mathematical precision.
- (b) State any two constructive effects of an earthquake. [3]
- (iv) Study the given picture and answer the following questions: [3]



- (a) Identify and name A and B.
- (b) State any two characteristics of the feature labelled C.

**Question 7**

- (i) Sashi went to Rajasthan for a holiday. Enjoying the beauty of the deserts she noticed some live crescent shaped sand dunes which were advancing steadily before the wind.
- (a) What are those crescent shaped dunes called?
- (b) How are they formed initially? [2]
- (ii) Name the following:
- (a) Tension and splitting of rocks due to sudden rise and fall of temperature.
- (b) A pronounced curve or loop in the course of a river channel.
- (iii) Give reasons for the following statements: [3]
- (a) Physical weathering is more rapid in the desert climate.
- (b) Migration of dunes is a threat to desert life.
- (c) Landforms of deposition are more prominent in the middle course of a river.
- (iv) Study the picture and answer the following questions in the next page: [3]



- (a) Identify and name the landform marked with letter A.
- (b) In which course of the river does it form?
- (c) State any one necessary conditions for its formation.

**Question 8**

- (i) Differentiate between High tide and Low tide. [2]
- (ii) Name the ocean current that originates in the Gulf of Mexico and exits through the Strait of Florida. What is its climatic impact on the east coast of North America? [2]
- (iii) Give reasons for the following statements: [3]
  - (a) Newfoundland has rich fishing grounds.
  - (b) Eastern coast of Japan is warm in January.
  - (c) The tidal range differs from one water body to the other.
- (iv) Draw a suitable diagram of Neap Tide and label it. [3]

**Question 9**

- (i) *"The abundance of heat - trapping greenhouse gases in the atmosphere once again reached a new record between 2021 to 2023 and there is no end to the rising trend according to the new report from the World Meteorological Organization (WMO)."*  
Press release, 15th Nov 2023, wmo.int [2]
  - (a) Name any two major greenhouse gases that affect the temperature.
  - (b) State any one consequence of the intensified greenhouse effect on the Global Climate.
- (ii) Aurora Borealis commonly known as northern lights is a natural light display in Earth's sky.
  - (a) Which layer of the atmosphere is responsible for this light display?
  - (b) State its function. [2]
- (iii) Give reasons for the following statements: [3]
  - (a) Annual range of temperature is greater at Jaipur than at Chennai.
  - (b) The ports of the north-east coast of Canada( $60^{\circ}\text{N}$ ) remain frozen for several months.
  - (c) CFCs are regarded as the reason for ozone depletion.
- (iv) Satish lives in Lucknow in Uttar pradesh. For attending a family function he had to go to Nainital in Uttarakhand in the month of April and found it cooler.
  - (a) What is the reason for this difference in temperature?
  - (b) Briefly explain how slope of land and distance from the sea affects the distribution of temperature? [3]

**Question 10**

- (i) (a) How are hailstones formed?  
(b) What is its effect on the crops? [2]
- (ii) Briefly explain any two factors that favours evaporation. [2]
- (iii) Give reasons for the following statements: [3]
  - (a) Humid air exerts less pressure than dry air.
  - (b) Atmospheric pressure is highest at sea level.
  - (c) Mumbai receives more rainfall than Pune.
- (iv) Draw a suitable diagram of Pressure Belts of the world and label it. [3]

### **Question 11**

- (i) *"Delhi pollution: The Centre on Wednesday decided to watch the situation for a day or more before invoking stricter curbs under Stage 3 of the Centre's air pollution control a plan called the Graded Response Action Plan (GRAP) in Delhi-NCR. Delhi's average air quality index (AQI) breached 400-mark on Wednesday, according to the CPCB."*

*India News, January 25, 2024*

- State any two effects of air pollution on plants. [2]
- (ii) Name the following: [2]
- Pollutants formed from the chemical reactions of the primary pollutants.
  - Combination of smoke and fog during winters.
- (iii) On the basis of Bhopal Gas Tragedy, answer the following questions: [3]
- Name the gas that was leaked.
  - State any two effects of this leakage on human beings.
- (iv) Ravi comes to school everyday availing a car facility whereby he shares his journey with some of his classmates. [3]
- What is this facility of availing shared cars called?
  - State any two advantages of it.

### **Question 12**

- (i) State any two climatic conditions found in the Equatorial region. [2]
- (ii) Study the given map and answer the following questions: [2]



- (a) Which natural region is shown in the given map? [3]
- (b) State any one feature of the natural vegetation found in this region. [3]
- (iii) Which semi-nomadic people are found in the Tundra region? State any two probable occupations in this region. [3]
- (iv) Give reasons for the following statements: [3]
- There are no trees in the Tundra region.
  - Tropical deserts are mainly located in the western margins of the continents.
  - Equatorial regions are called the 'Lungs of the world.'