



**DELHI PUBLIC SCHOOL NEW TOWN**  
**SESSION 2020-21**  
**ANNUAL EXAMINATION (ONLINE)**

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**CLASS: IX**  
**SUBJECT: GEOGRAPHY**

**FULL MARKS: 50**  
**TIME: 1HR 30 MIN**

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**Instructions:**

- Attempt any five questions.
  - This question paper consists of 4 printed pages.
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**Question 1**

- a) State two causes for the change of seasons on the earth. [2]
- b) The general climate of an area can be described with the help of lines of latitude-  
Elaborate. [2]
- c) Give reasons for the following:
  - i) The density of Gutenberg discontinuity is high.
  - ii) Coriolis effect plays an important role in the movement of air.
  - iii) The International Date Line goes zig-zag near some Islands in the Pacific Ocean. [3]
- d) Draw the diagram of the interior of the earth and label the following using geographical terms:
  - i) The layer which is responsible for earth's Magnetic field.
  - ii) The boundary between the crust and the mantle.
  - iii) The layer with an average thickness of 2900 km. [3]

**Question 2**

- a) Name the following:
  - i) The process of alteration of the composition of a rock by heat, pressure or other natural agency.
  - ii) Intrusive igneous rock with dome-shaped upper surface and flat bottom. [2]
- b) Explain the role of Frost action in physical weathering. [2]
- c) Give the geographical terms for each of the following:
  - i) Expansion of minerals in rocks on coming into contact with rainwater.
  - ii) The action which dissolves most calcareous rocks as gypsum, marble and limestone.
  - iii) Disintegration or decomposition of rocks. [3]

- d) Give reasons for the following:
- Intrusive igneous rocks are also called plutonic rocks.
  - Biological weathering is a combined process of physical and chemical weathering.
  - Chemical weathering is more active in equatorial regions. [3]

**Question 3**

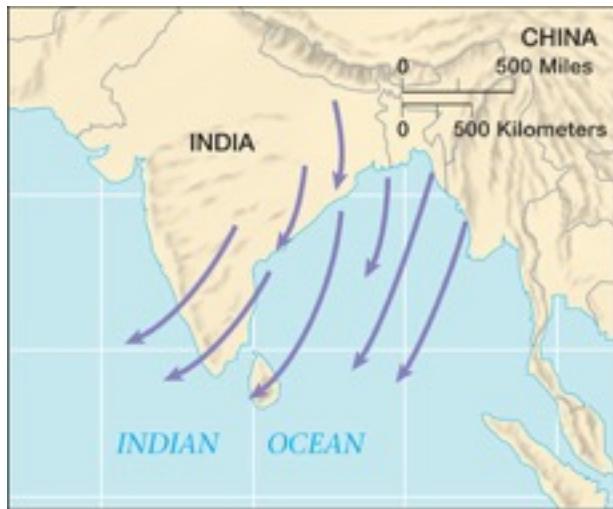
- State one constructive and one destructive effect of volcano. [2]
- Answer the following questions:
  - Two scales of measuring the intensity of earthquakes.
  - The point on the earth's surface directly above the seismic focus. [2]
- Give reasons for the following :
  - Most earthquakes occur on account of plate movements.
  - Volcanic eruptions are one of the main causes of earthquakes.
  - Volcanic mountains are the most diverse in nature. [3]
- Name the following :
  - The fault responsible for the Californian earthquake in 1906.
  - A large destructive ocean wave that can be generated by any disturbance such as volcanic eruptions, landslides etc.
  - The instrument used to record the direction of movement of earthquake waves and their passage at a particular point. [3]

**Question 4**

- Define the following:
  - Tide range
  - Ocean current [2]
- Draw a diagram and label the tide which takes place during the full moon. [2]
- Name the following:
  - A current that transports icebergs from the glaciers of Greenland.
  - Richest fishing ground in the Atlantic ocean.
  - An ocean current which is also known as Black Stream. [3]
- Give reasons for the following:
  - Japanese coast has dense fog.
  - The western coast of Europe remains ice free in winter.
  - Tides have economic importance. [3]

### Question 5

- a) State the location of the following local winds:  
i) Loo  
ii) Chinook [2]
- b) Write three differences between cyclones and anticyclones. [2]
- c) Give geographical reasons for the following:  
i) Snow on the slopes of the Himalayas in Nepal melt faster than that on the slope towards Tibet.  
ii) Most of the deserts lie on the western margins of the continent within the tropical latitudes.  
iii) Tropical deserts have high annual range of temperature. [3]
- d) On the basis of the given picture, answer the following questions:



- i) Name the wind.  
ii) Mention the pressure conditions over the landmass and Indian Ocean.  
iii) State two regions where rainfall is received by this wind. [3]

### Question 6

- a) Mention one harmful effect each of the following pollutants on human health:  
i) Carbon monoxide  
ii) Lead [2]
- b) Give reasons for the following:  
i) The Equatorial region is also called the 'lungs of the world'.  
ii) The Tropical Monsoon regions experience three seasons. [2]

- c) With reference to Tropical Desert, answer the following:
- i) The latitudinal extent.
  - ii) Annual rainfall.
  - iii) How is the vegetation adapted to the climate of this region? [3]
- d) As a student how can you contribute in reducing air pollution in your locality? [3]