



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

CLASS: IX
SUBJECT: GEOGRAPHY

FULL MARKS: 50
TIME: 1HR 30 MIN

Instructions:

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

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:
 - i) Intrusive igneous rocks are also called plutonic rocks.
 - ii) Biological weathering is a combined process of physical and chemical weathering.
 - iii) Chemical weathering is more active in equatorial regions. [3]

Question 3

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

Question 4

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