



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2020-21
HALF YEARLY EXAMINATION (ONLINE)

CLASS: IX
SUBJECT: GEOGRAPHY

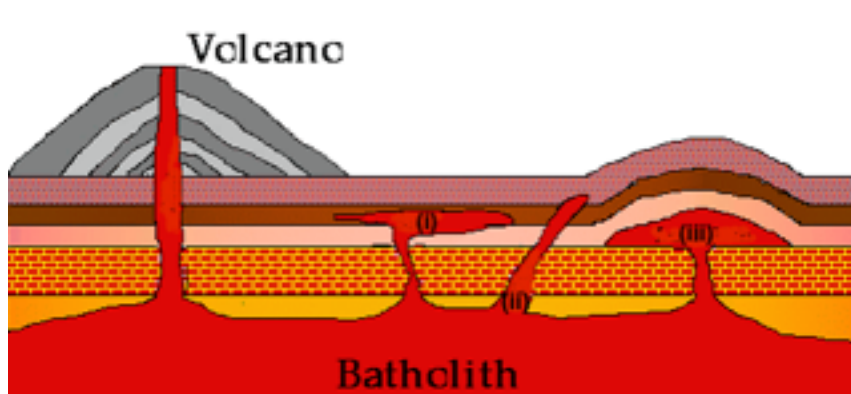
FULL MARKS: 40
TIME: 1 HOUR

Instructions:

- All questions are compulsory.
- This paper consists of 3 printed pages.

Question 1

- (a) Sandstone and basalt are the examples of two different types of rock. Write their rock type with one characteristic each. [2]
- (b) Give reasons for the following:
- (i) Igneous rocks are less affected by chemical weathering.
 - (ii) Metamorphic rocks do not have fossils. [2]
- (c) Name the following:
- (i) Two most abundant mineral elements in the earth's crust.
 - (ii) Rock which is formed when magma cools at intermediate depth.
 - (iii) Rock which is formed by the deposition of sediments on the lake beds. [3]
- (d) Study the following diagram and answer the questions that follow:



Name and define the features (i), (ii) and (iii) given in the diagram [3]

Question 2

- (a) Distinguish between mechanical weathering and chemical weathering on the basis of its agents and climatic conditions. [2]
- (b) 'Rain water causes disintegration of gypsum.' - Describe the process involved in the given statement. [2]
- (c) Give geographical reasons for the following:
- (i) Biological weathering is negligible in polar climates.
 - (ii) Internal forces are described as 'Constructive Forces'.
 - (iii) Weathering is important for the process of erosion. [3]
- (d) Study the following pictures and describe the processes involved in (i), (ii) and (iii). [3]



(i)



(ii)



Source: www.geography.ie

(iii)

Question 3

- (a) (i) What is meant by the inclination of the Earth's axis? [2]
- (ii) At what angle is the Earth's axis inclined? [2]
- (b) Give reasons for the following:
 - (i) The speed of revolution of the earth is not uniform.
 - (ii) 25th December may be one of the hottest days of the year in Australia. [2]
- (c) On which two dates are the Sun's rays overhead to the Equator? What are the seasons in the Northern and Southern Hemispheres on these days. [3]
- (d) What is Coriolis effect? What is its effect on winds and ocean currents in the Northern and Southern Hemispheres? [3]

Question 4

- (a) Explain how ocean currents influence rainfall with example. [2]
- (b) Give reasons for the following:
 - (i) Hurricanes occur off the coast of United States.
 - (ii) The ports of Alaskan coast is ice-free in winters. [2]
- (c) Define the following:
 - (i) Tide range
 - (ii) Ebb
 - (iii) Apogee [3]
- (d) Identify the following diagram and explain. [3]

