



**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]

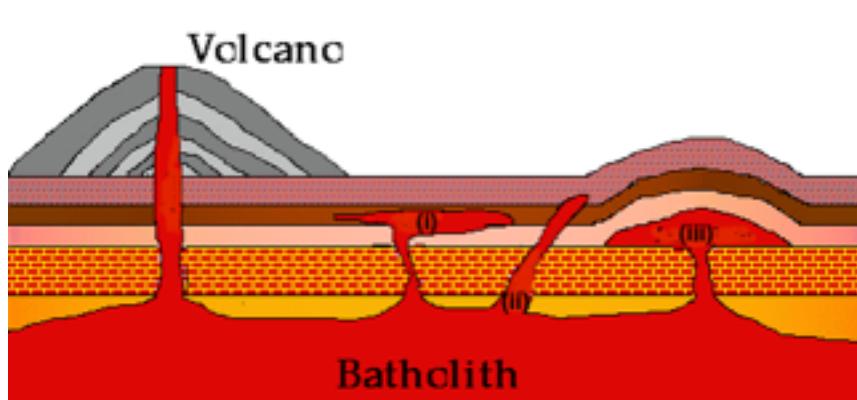
(c) Name the following:

(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?
(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]

