

## Model Question Paper

Subject: Geology

Class: 11<sup>th</sup>

Time: 3 Hours

Maximum Marks: 70

### (Long Answer Type Questions)

5 Each

- 1 Define Geology and its various branches in detail.  
Or

Define Weathering. Discuss the Mechanical and chemical weathering in detail.

- 2 Define underground water and discuss various zones of underground water  
Or

Describe the Aquifer and its types in detail.

- 3 Define mineral. Give the physical properties of the Fluorite and Corundum.  
Or

Explain the Walker's steelyard method to determine specific gravity of a mineral.

- 4 Give the detail description of Gabbro and Basalt.  
Or

Define a rock and its types. Give texture and structure of rock as seen megascopically.

## **(Short Answer Type Questions)**

**3 Each**

- 5 Write a short note on soil formation.
- 6 Explain porosity and permeability.
- 7 Write about the various types of springs.
- 8 Discuss the lake deposits.
- 9 Define V-shaped valley and river terraces.
- 10 Explain Moh's scale of hardness.
- 11 Differentiate fold and fault.
- 12 Write a short note on preservation and uses of fossil.

## **(Very Short Answer Type Questions)**

**2 Each**

13 Answer the following very short answer type questions in a few words or a few sentences:

- (a) Define Geo hydrology.
- (b) Discuss connate water.
- (c) Define Fiords.
- (d) Give the hardness and specific gravity of Apatite and Topaz.
- (e) Define an Ore.
- (f) Differentiate Granite and Basalt.
- (g) Explain Dip and Strike.
- (h) Differentiate Tunnel and Bridge.

## **(Objective Type Questions)**

**1 Each**

14 **Do as directed:**

(A) Fill in the blanks with suitable and most appropriate words:

- (1) The depositional feature of a valley glacier is-----
- (2) -----is a scientific instrument to measure the hardness of a mineral.
- (3) Bauxite is an ore of-----
- (4) An anticline is an up fold where the limbs dip----- from the axis of fold on either side.

**(B) Choose the correct answer:**

- (5) The process by which large plates or sheets of rocks are stripped from a large rock mass by physical force is:
- a) Dissolution
  - b) Hydrolysis
  - c) Hydration
  - d) Exfoliation
- (6) Stalactite and stalagmite in groundwater are:
- a) Erosional features
  - b) Depositional features
  - c) Eskers
  - d) Erratic
- (7) The light coloured plutonic acidic rock is:
- a) Gabbro
  - b) Diorite
  - c) Basalt
  - d) Granite
8. When an igneous rock contains large crystals of some minerals set in a matrix which is much finer grained or even glassy, the texture is:
- a) Ophitic texture
  - b) Porphyritic texture
  - b) Panidiomorphic texture
  - c) Felsitic texture
  - c)
- (C) Write True or False for the following sentences on your answer book:
- (9) Petrology is a branch of geology which deals with minerals.
- (10) The direction of the line along which an inclined bed intersects a horizontal plane is known as syncline.