

AR - 482

First Semester B. Sc. (Part - I) Examination

GEOLOGY

(1-S)

P. Pages : 5

Time : Three Hours]

[Max. Marks : 80

4. Write in brief on the following :-

- (a) Discordant igneous intrusives.
- (b) Formation of sedimentary rocks.
- (c) Kinds of Metamorphism.

OR

- (p) Vesicular and amygdaloidal structure.
- (q) Agents of Metamorphism.
- (r) Textures based on shape of crystals. 12

5. Describe the followings :-

- (a) Pedestal rock.
- (b) Delta Deposits.
- (c) Chemical weathering.

OR

- (p) Sand dune and it's types.
- (q) Susceptibility of rocks and minerals to weathering.
- (r) Waterfall. 12

- Note :** (1) All questions are compulsory.
 (2) Draw neat and well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :—

- (1) The mineral calcite shows _____ form.
- (2) The point above the focus of earthquake is called as _____
- (3) The preserved remains of plants and animals are called as _____
- (4) Weathering and Erosion combinally known as _____ .

(B) Choose correct alternatives :

- (1) The cherry red streak is shown by mineral-
 (a) Hematite

- (b) Kyanite
 - (c) Chlorite
- (2) The deposits formed by river are called as _____
- (a) Fluvial
 - (b) Lacustrine
 - (c) Aeolian
- (3) Very large igneous intrusive without visible bottom is known as _____
- (a) Phacolith
 - (b) Laccolith
 - (c) Batholith
- (4) The most important characteristic of sedimentary rock is _____
- (a) Fine grain texture
 - (b) Stratification
 - (c) Granular texture.

(c) Answer in **one** or **two** sentences :-

- (1) What is Goniometer ?
- (2) Which are the agents of Metamorphism ?

- (3) What are conditions necessary for fossilization ?
- (4) What are potholes ? 12

2. Describe the followings :-

- (a) Nebular Hypothesis.
- (b) Carbon-14 method.
- (c) The core of the earth.

OR

- (p) Tidal Hypothesis.
- (q) Uranium-Lead Method.
- (r) The crust of the earth. 12

3. What is mineral ? Describe the various physical properties of a mineral.

OR

Define Indices. Describe the Index system of Miller. 12

6. What is Earthquake ? Describe the measurement of earthquake in detail.

OR

Define volcanoes ? Describe the various types of volcanic products. 12

7. Give an account of the followings :-

- (a) Imprints and Impressions.
- (b) Principle of order of super position.
- (c) Index fossil.

OR

- (p) Petrification.
- (q) Principle of Uniformitarianism.
- (r) Physiographic divisions of India. 12



