

**B.Sc. (Part—I) Semester—I Examination**  
**1S : GEOLOGY (Old)**

Time : Three Hours]

[Maximum Marks : 80

**Note** :—(1) All questions are compulsory.

(2) Draw neat and well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

- (i) The crust and mantle is separated by \_\_\_\_\_.
- (ii) Crystals are classified on the basis of \_\_\_\_\_.
- (iii) Diamond shows \_\_\_\_\_ lustre.
- (iv) The waves generated by earthquake are called \_\_\_\_\_ waves.

(B) Choose correct alternatives :

- (i) The colour of the powder of a mineral is called as :
  - (a) Hardness
  - (b) Streak
  - (c) Habit
- (ii) The gaseous products ejected by the volcano are called as :
  - (a) Lava
  - (b) Clastics
  - (c) Pyroclasts
- (iii) Orogenic movements is related with :
  - (a) Mountain building
  - (b) Ocean building
  - (c) Continent building
- (iv) The deposits formed by air are known as :
  - (a) Aeolian Deposits
  - (b) Glacial Deposits
  - (c) Fluvial Deposits

(C) Answer in **one or two** sentences each :

- (i) What is crystal ?
- (ii) Define fossil.
- (iii) What are geysers ?
- (iv) What is porphyritic texture ?

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2. What is Geology ? Describe the various branches of geology giving the scope of geology.

**OR**

What is radioactivity ? Describe the various radioactive methods for determination of age of earth.

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3. Describe the following :

- (a) Specific gravity
- (b) The Goniometer
- (c) Indices.

**OR**

- (p) Cleavage and fracture
- (q) Crystallographic axes
- (r) Interfacial angle.

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4. Write in brief on the following :

- (a) Rock cycle
- (b) Concordant Igneous intrusions
- (c) Agents of Metamorphism.

**OR**

- (p) Blocky and Ropy Lava
- (q) Formation of Sedimentary Rocks
- (r) Porphyritic Texture.

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5. What is meant by Weathering ? Describe the different types of weathering detail.

**OR**

Write in detail about the geological work done by Wind.

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6. Describe the following :

- (a) Elastic Rebound Theory
- (b) Effects of Earthquake
- (c) Solid products of Volcanoes.

**OR**

- (p) Types of Volcanic eruptions
- (q) Seismogram and Seismograph
- (r) Fumeroles.

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7. Give an account of the following :

- (a) Petrification
- (b) Peninsular India
- (c) Geological Time Scale

**OR**

- (p) Mould and Cart
- (q) Indo-Gangetic Plain
- (r) Principle of Faunal Succession.

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