

**B.Sc. (Part-II) Semester-III Examination**  
**3S : GEOLOGY (Old)**

Time : Three Hours]

[Maximum Marks : 80

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

1. (A) Fill in the blanks :- - 2
- (i) Mineral bodies of elongated or tubular shape deposited in pre-existing fissures are known as \_\_\_\_\_.
  - (ii) The Trilobites are divided into \_\_\_\_\_.
  - (iii) Worthless material associated with an ore mineral is \_\_\_\_\_.
  - (iv) The constant proportion in which the two constituents simultaneously crystallise is called \_\_\_\_\_.
- (B) Choose the correct alternatives :- - 2
- (i) Number of segments in Thorax :
    - (a) 2 to 42 (b) 3-6
    - (c) 3 (d) None of the above
  - (ii) The outer wall of corallite is known as :
    - (a) Theca (b) Epitheca
    - (c) Septa (d) Mesenteries
  - (iii) Primary Deposits of ore mineral are also known as :
    - (a) Supergene (b) Hypogene
    - (c) Tenor (d) None of the above
  - (iv) The region in which the rate of crystallization is slow is called as :
    - (a) Metastable (b) Labile
    - (c) Solidous (d) None of these
- (C) Answer the following in **ONE** sentence :- - 4
- (i) What is stock works ?
  - (ii) What are epigenetic deposits ?
  - (iii) What is triple point ?
  - (iv) What is Septa ?
2. Explain the following :- - 12
- (a) Tenor of ore
  - (b) Metallogenic epoch and provinces
  - (c) Ore forming mineral.

**OR**

- (p) Cavity filling deposits
  - (q) Hydrothermal deposits
  - (r) Early Magmatic Deposits.
3. Describe the oxidation and supergene enrichment deposits. 12

OR

Describe various types of mechanical concentration deposits.

4. Explain the following : 12
- (a) Three component system
  - (b) Eutectic
  - (c) Concept of phase, component and system.

OR

- (p) Mixed crystal
  - (q) One component system
  - (r) Phase rule
5. Explain the following : - 12
- (a) Lamprophyre and their equivalents
  - (b) Gabbro-Anorthosite-Peridotite
  - (c) Distribution of igneous rock in space and time.

OR

- (p) Variation Diagram
  - (q) Consanguinity
  - (r) Kindreds of Igneous rock.
6. Describe morphology, classification and geological distribution of class foraminifera. 12

OR

Describe morphology, classification and geological distribution of class Echinodermata.

7. Explain the following : 12
- (a) Thorax
  - (b) Morphology of Anthozoa
  - (c) Application of paleontologic data.

OR

- (p) Apical disc
- (q) Classification of Anthozoa
- (r) Facial suture in trilobita.