

**B.Sc. (Part—II) Semester—III Examination**  
**3S : GEOLOGY (New)**  
**(Stratigraphy and Palaeontology)**

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 age of Deccan trap is \_\_\_\_\_.
- (ii) The body of Trilobita is divided into \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- (iii) The Raniganj formation is famous for \_\_\_\_\_ deposits.
- (iv) The smallest subdivision in the geological time scale is \_\_\_\_\_.

(B) Choose the correct alternatives :

- (i) Ajabgarh series belongs to which system ?
  - (a) Delhi
  - (b) Triassic of Spiti
  - (c) Siwalik
  - (d) Gondwana
- (ii) Ariyalur stage is included in :
  - (a) Siwalik group
  - (b) Triassic of Spiti
  - (c) Trichinopoly
  - (d) Lameta
- (iii) Suture are present in :
  - (a) Lamellibranchia
  - (b) Gastropoda
  - (c) Cephalopoda
  - (d) Brachiopoda
- (iv) Apical disc is present in :
  - (a) Gastropoda
  - (b) Cephalopoda
  - (c) Brachiopoda
  - (d) Lamellibranchia

(C) Answer the following in **one** sentence each :

- (i) What is Periproct ?
- (ii) What is trace fossil ?
- (iii) What is Epoch ?
- (iv) What are interappean beds ?

2. Describe the classification, geographic distribution, lithological characteristics, fossil content and economical importance of Archean Supergroup.

**OR**

Describe in detail the physiographical divisions of India.

3. Explain the following :

- (a) Lithology of Cuddapah Supergroup
- (b) Kurnool Supergroup
- (c) Delhi Supergroup.

**OR**

- (p) Classification of Triassic of Spiti
- (q) Penganga formation
- (r) Kaladgis formation.

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4. Explain the following :

- (a) Classification of Gondwana Supergroup
- (b) Bagh beds
- (c) Stratigraphy of Maharashtra.

**OR**

- (p) Classification of Deccan trap
- (q) Jurassic of Kutch
- (r) Lithology of Siwalik Supergroup.

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5. Explain the following :

- (a) Paleontology and its branches
- (b) Mode of preservation
- (c) Microfossils and its types.

**OR**

- (p) Types of fossils
- (q) Index and zone of fossil
- (r) Importance and scope of Paleontology.

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6. Describe in detail the Morphology, Classification and Geological history of Lamellibranchia.

**OR**

Describe in detail the Morphology, Classification and Geological history of Brachiopoda.

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7. Explain the following :

- (a) Classification of Echinoidea
- (b) Septa in Coral
- (c) Plants fossils of Gondwana.

**OR**

- (p) Apical disc
- (q) Morphology of trilobita
- (r) Classification of Anthozoa.

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