

**B.Sc. (Part-II) Semester-III Examination**  
**3S : GEOLOGY (New)**  
**(Stratigraphy & 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 :— 2
- (i) Jabalpur formation is related to \_\_\_\_\_ supergroup.
  - (ii) In trilobite the middle more rounded part is known as \_\_\_\_\_.
  - (iii) \_\_\_\_\_ is the major unit in the geological time scale.
  - (iv) The typical Cuddapah succession is found in \_\_\_\_\_ State of India.
- (B) Choose the correct alternatives :— 2
- (i) The rock of the Dharwar Supergroup falls within the range of :
    - (a) Archean (b) Pre-Cambrian
    - (c) Triassic (d) Quaternary
  - (ii) Peristome is made up of mouth and surrounding tissue up to the lower margin of :
    - (a) Corona (b) Plates
    - (c) Cephalic Shield (d) Apical disc
  - (iii) Ariyalur stage is included in \_\_\_\_\_.
    - (a) Siwalik group (b) Cretaceous of Trichinopoly
    - (c) Gondwana (d) Deccan trap
  - (iv) Dentitions is the characteristic of :
    - (a) Lamellibranchia (b) Gastropoda
    - (c) Cephalopoda (d) Brachiopoda
- (C) Answer the following in **ONE** sentence :— 4
- (i) What is index fossil ?
  - (ii) What is Era ?
  - (iii) What is the age of Deccan trap ?
  - (iv) What are Baghbeds ?
2. Explain the following :— 12
- (a) Lithostratigraphy and Biostratigraphy
  - (b) Sukoli group
  - (c) Aravalli group

OR



- (p) Saurashtra Series
- (q) Stratigraphy and its importance
- (r) Economic importance of Archean Supergroup.
3. Describe the Classification, Geographic distribution, Lithological characteristics, Fossil content and Economic importance of Vindhyan Supergroup. 12

**OR**

Describe the classification, geographic distribution, lithological characteristics, fossil content and economic importance of Cuddapah Supergroup.

4. Explain the following :— 12
- (a) Lithology and fossil contents of Gondwana Supergroup
- (b) Jurassic of Kutch
- (c) Geographic distribution of Deccan trap.

**OR**

- (p) Cretaceous of Trichonopoly
- (q) Lameta Beds
- (r) Geographic distribution of Siwalik Supergroup.
5. Explain the following :— 12
- (a) Importance and scope of Paleontology
- (b) Mode of Preservation of fossil
- (c) Microfossil and its types.

**OR**

- (p) Index and zone of fossils.
- (q) Conditions for Fossilization
- (r) Classification of Animal fossils.
6. Describe in detail the morphology, classification and geological history of Cephalopoda. 12

**OR**

Describe in detail the morphology, classification and geological history of Brachiopoda.

7. Explain the following :— 12
- (a) Morphology of Echinoidea
- (b) Classification of Anthozoa
- (c) Geological history of trilobites

**OR**

- (p) Geological history of Echinoidea
- (q) Classification of trilobites
- (r) Morphology of Anthozoa.