

**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 trilobita 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 Suppergroup falls within the range of :
  - (a) Archean
  - (b) Pre-Cambrian
  - (c) Triassic
  - (d) Quartarnary
- (ii) Peristrome 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) Sausori 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.