

**B.Sc. (Part—II) Semester—IV Examination
GEOLOGY**

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) All questions are compulsory.

(2) Draw neat well labelled diagram wherever necessary.

1. (A) Fill in the blanks :

(i) Psilomelane is the ore forming mineral of _____.

(ii) The Geological Age of Nyveli Lignite Coal deposits is _____.

(iii) Dunes deposits are the deposition feature of _____.

(iv) Siwalik rocks are mainly found in _____ region.

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(B) Choose the correct alternative :

(i) Delta deposits have been originated by :

(a) Lacustrine environment

(b) Fluvial environment

(c) Aeolian environment

(d) Deep-sea-environment

(ii) Braunite is the ore mineral of :

(a) Iron

(b) Copper

(c) Manganese

(d) Aluminium

(iii) Two fold classification of Gondwana Super Group are based on :

(a) Structural evidences

(b) Palaeontological evidences

(c) Paleoclimatic evidences

(d) All of above

(iv) The major mica deposits of higher quality and quantity comes from :

(a) Uttar Pradesh

(b) Maharashtra

(c) Bihar

(d) Gujarat

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

(i) What is metasomatism ?

(ii) What are the uses of Gypsum ?

(iii) What is Alluvial Fan and Aluvial Cone ?

(iv) What are Bagh beds ?

4

2. Explain the following :

(a) Geographical distribution of Iron

4

(b) Lead-Zinc deposits of Rajasthan.

4

(c) Principle ore mineral of Copper.

4

OR

(p) Khetri copper deposits.

4

(q) Origin and occurrence of Bauxite.

4

(r) Origin and geographical distribution of Manganese in India.

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3. Describe the Mineralogy, uses, geological occurrence and distribution of Mica deposits in India. 12

OR

Describe the origin, uses, geological occurrence and geographical distribution of Petroleum deposits in India. 12

4. Describe the following :
- (a) Acolan deposits 4
 - (b) Glacial deposits 4
 - (c) Lacustrine environment of deposition. 4

OR

- (p) Paragenetic diagram 4
 - (q) Fluvial environment of deposition 4
 - (r) Near-shore environment of deposition. 4
5. Explain the following :
- (a) Types of Metasomatism 4
 - (b) Products of Thermal metamorphism 4
 - (c) Cataclastic metamorphism. 4

OR

- (p) Plutonic metamorphism and its products. 4
 - (q) Additive processes. 4
 - (r) Dynamothermal metamorphism. 4
6. Describe the classification, geographical distribution, lithological characteristics and economical importance of Gondwana Super-group. 12

OR

Describe the classification, distribution, lithological, structural characteristics and economical importance with their weathering products of Deccan-Trap. 12

7. Explain the following :
- (a) Lameta formation 4
 - (b) Classification of Triassic of Spithi 4
 - (c) Jurassic of Cutch. 4

OR

- (p) Mammalian fossils of Siwalik Super Group. 4
- (q) Cretaceous of Trichonopally 4
- (r) Bagh-bed. 4