

B.Sc. Part—II Semester—IV Examination

4S : GEOLOGY

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Draw neat diagrams wherever necessary.

1. (A) Fill in the blanks : 2
- (i) Niniyur formation belongs to _____ .
 - (ii) Bornite is the ore forming mineral of _____.
 - (iii) Zawar belt is situated in _____ district _____ State.
 - (iv) Ankleshwar Oil Field is situated in _____ State.
- (B) Choose the correct alternative : 2
- (i) Which of the following belongs to Cretaceous of Trichinopoly :
 - (a) Katrol formation
 - (b) Umia formation
 - (c) Pancham formation
 - (d) Uttatur formation
 - (ii) Bauxite occur in association with :
 - (a) Laterite
 - (b) Sandstone
 - (c) Stilbite
 - (d) Granite
 - (iii) Bombay High oil deposits lies in :
 - (a) Red Sea
 - (b) Arabian Sea
 - (c) Bay of Bengal
 - (d) Arabian Sea and Bay of Bengal.

(iv) Magnetite is the ore mineral of :

- (a) Manganese
- (b) Mica
- (c) Copper
- (d) Iron

(C) Answer the following in **one or two** sentences each : 4

- (1) What is alluvial fan ?
- (2) What are dunes ?
- (3) What are the uses of Gypsum ?
- (4) What is the age of Sakoli and Sausar group ?

2. Explain the following :

- (a) Zawar Lead and Zinc belt of Rajasthan. 4
- (b) Mineralogy of Copper 4
- (c) Geographical distribution of Manganese in India. 4

OR

- (p) Singbhum Copper belt 4
- (q) Mineralogy of Iron 4
- (r) Origin and occurrence of Bauxite. 4

3. Describe the origin, classification and geographical distribution of coal deposits in India. 12

OR

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

4. Explain the following :

- (a) Deep sea environments. 4
- (b) Aeolean environment of deposition. 4
- (c) Projective analysis. 4

OR

- (p) Delta formation. 4
- (q) Glacial deposits 4
- (r) Paragenetic diagram. 4
5. Explain the following :
- (a) Cataclastic metamorphism. 4
- (b) Auto metamorphism. 4
- (c) Dynamothermal metamorphism. 4
- OR**
- (p) Thermal Metamorphism. 4
- (q) Injection Metamorphism. 4
- (r) Pneumatolytic Metamorphism. 4
6. Describe the geographical distribution, lithology, classification and economic importance of Deccan trap. 12
- OR**
- Describe the geographical distribution, lithology, classification, fossil content and economic importance of Gondwana super group. 12
7. Explain the following :
- (a) Fossil contents of Siwalik super group 4
- (b) Lameta formation. 4
- (c) Cretaceous of Trichinopoly. 4
- OR**
- (p) Cretaceous of Narmada Valley. 4
- (q) Classification of Triassic of Spiti. 4
- (r) Economic importance of Siwalik super group. 4

