

AS-1431

B.Sc. (Part-II) Semester-IV Examination

GEOLOGY

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) **ALL** questions are compulsory.

(2) Draw neat diagram wherever necessary.

1. (A) Fill in the blanks :

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(i) Bombay high oil deposits occur in _____ state.

(ii) Patchum formation belongs to _____.

(iii) Bornite is the ore forming mineral of _____.

(iv) Bauxite occur in association with _____.

(B) Choose the correct alternative :

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(i) Which of the following belongs to Jurassic of Kutch ?

(a) Niniyur formation (b) Umia formation

(c) Uttatur formation (d) Ariyalur formation.

(ii) Chalcopyrite is the ore forming mineral :

(a) Aluminium (b) Mica

(c) Copper (d) Iron

(iii) Ankleshwar oil field is situated in :

(a) Tamilnadu (b) Maharashtra

(c) Gujarat (d) Rajasthan

(iv) Psilomelane is the ore mineral of :

(a) Copper (b) Iron

(c) Manganese (d) Gypsum

- (C) Answer the following in **one** or **two** sentences : 4
- (1) What is bagh bed ?
 - (2) What are the uses of asbestos ?
 - (3) What is delta ?
 - (4) What are uses of magnesite ?

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

OR

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

3. Explain the following :
- (a) Origin and occurrence of Asbestos. 4
 - (b) Classification of coal. 4
 - (c) Geological origin of magnetite. 4

OR

- (p) Limestone. 4
- (q) Origin of petroleum. 4
- (r) Mineralogy and uses of Mica. 4

4. Explain the following :
- (a) Projective analysis. 4
 - (b) Lacustrine deposits. 4
 - (c) Flood plain. 4

OR

- (p) Paragenetic diagram. 4
- (q) Nearshore deposits. 4
- (r) Glacial deposits. 4

5. Explain the following :
- (a) Additive process. 4
 - (b) Injection metamorphism. 4
 - (c) Dynamothermal metamorphism. 4

OR

- (p) Auto metamorphism. 4
- (q) Plutonic metamorphism and their products. 4
- (r) Cataclastic metamorphism. 4

6. Explain the following :
- (a) Fossil contents of Gondwana super group. 4
 - (b) Economical importance of Deccan trap. 4
 - (c) Distribution of Gondwana super group. 4

OR

- (p) Classification of Deccan trap. 4
- (q) Economical importance of Gondwana super group. 4
- (r) Inter-trappean. 4

7. Describe the geographical distribution, classification, fossil content and economical importance of Siwalik super group. 12

OR

Describe the Jurassic of Spiti and Jurassic of Kutch. 12

