

B.Sc. (Part—II) Semester—IV Examination
4S : GEOLOGY (Old) (Upto Summer—2020)

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) **ALL** the questions are compulsory.

(2) Draw neat diagram wherever necessary.

1. (A) Fill in the blanks :

- (i) Bauxite is ore of
- (ii) Cuprite is the ore mineral of
- (iii) Uttatur formation belongs to
- (iv) The Bombay High deposits of oil lie in Sea.

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(B) Choose the correct alternative :

- (i) The age of Deccan Trap is :
 - (a) Tertiary
 - (b) Upper Cretaceous to Eocene
 - (c) Precambrian
 - (d) Devonian to Silurian
- (ii) Which of the following belongs to Jurassic of Kutch ?
 - (a) Niniyar
 - (b) Uttatur
 - (c) Katrol and Umia
 - (d) Keuper
- (iii) The Khetri Copper belt of Rajasthan is situated in :
 - (a) Ajmer district
 - (b) Jaipur and Jabalpur district
 - (c) Surat and Ahemdabad district
 - (d) Jhunjun and Sikar district
- (iv) Which of the following belongs to Gondwana supergroup ?
 - (a) Kistana and Cheyair
 - (b) Rajmahal and Mahadeva
 - (c) Papaghani and Nallamla
 - (d) Ajabghar and Alwar

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

- (i) What are the uses of Gypsum ?
- (ii) What is leeward ?
- (iii) What is anthracite coal ?
- (iv) What is bagh beds ?

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

12

OR

Describe the mineralogy, origin, geological occurrence, use and geographical distribution of manganese deposits in India.

12

3. Explain the following :

- (A) Geographical distribution and use of Mica.
- (B) Mineralogy and use of Asbestos.
- (C) Origin of Petroleum.

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OR

- (P) Limestone
- (Q) Origin and occurrence of magnesite
- (R) Origin of coal.

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4. Explain the following :

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|----------------------------|---|
| (A) Near-shore-environment | 4 |
| (B) Projective analysis | 4 |
| (C) Types of dunes | 4 |

OR

- | | |
|-------------------------|---|
| (P) Paragenetic diagram | 4 |
| (Q) Delta formation | 4 |
| (R) Glacial deposits. | 4 |

5. Explain the following :

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|--------------------------------|---|
| (A) Autometamorphism | 4 |
| (B) Pneumatolytic metamorphism | 4 |
| (C) Injection metamorphism | 4 |

OR

- | | |
|--------------------------------------|---|
| (P) Dynamothermal metamorphism | 4 |
| (Q) Product of plutonic metamorphism | 4 |
| (R) Thermal metamorphism. | 4 |

6. Explain the following :

- | | |
|--|---|
| (A) Intertrappean | 4 |
| (B) Geographical distribution of Deccan trap | 4 |
| (C) Lithological characteristic of Gondwana supergroup | 4 |

OR

- | | |
|--|---|
| (P) Classification of Gondwana Supergroup | 4 |
| (Q) Lithological characteristic of Deccan trap | 4 |
| (R) Economic importance of Deccan trap. | 4 |

7. Describe in detail cretaceous of Narmada Valley and Trichanapally. 12

OR

Describe in detail Jurassic of Spiti and Jurassic of Kutch. 12