

AP-448

- (p) Basic rock 4
 (q) Kindreds 4
 (r) Syenite-Nepheline-Syenite. 4

6. Explain the following :

- (a) Micropalaeontology and Microfossil 4
 (b) Apical disc in Echinoides 4
 (c) Ornamentation in foraminifera. 4

OR

- (p) Peristome 4
 (q) Geological history of foraminifera 4
 (r) Regular and irregular Echinoides. 4

7. Describe the following :

- (a) Application of palaeontological data in evolution. 4
 (b) Septa in Rugosa-corals 4
 (c) Geological history of Trilobites. 4

OR

- (p) Palaeogeographic and palaeoclimatic reconstruction 4
 (q) Cephalic shield in Trilobites 4
 (r) Geological history of Anthozoa. 4

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

3S : 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 :

- (a) Deposits which are formed by Mechanical concentration process are _____.
 (b) Foraminifera belongs to the phylum _____.
 (c) In ultrabasic rock the percentage of ferro-magnesium mineral is greater than _____.
 (d) Skarn deposits are also known as _____. 2

(B) Choose the correct alternatives :

- (a) Bauxite is a type of deposit.
 (i) Hydrothermal deposit
 (ii) Sedimentary deposit
 (iii) Residual deposit
 (iv) Metamorphic deposit

(b) Test of foraminifera having pores are known as :

- (i) Imperforate
- (ii) Perforate
- (iii) Simple
- (iv) Compound

(c) The intergrowth texture is developed due to :

- (i) One-component system
- (ii) Eutectic crystallization
- (iii) Continuous series of crystallization
- (iv) None of above

(d) Saddle reef deposits are formed by the process :

- (i) Oxidation and supergene sulphide enrichment
- (ii) Magmatic concentration process
- (iii) Hydrothermal process
- (iv) Evaporation process

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(C) Answer the following in **one** sentence :

- (a) What are Guange minerals ?
- (b) Which is fine grained plutonic acid igneous rock ?
- (c) What are microfossil ?
- (d) What are Evaporite deposits ?

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2. What are Hydrothermal deposits ? Describe the cavity-filling deposits with suitable examples. 12

OR

Describe the Lindgren's scheme of classification of mineral deposit. 12

3. Explain the following :

- (a) Contact metasomatism 4
- (b) Residual concentration 4
- (c) Metamorphic deposits. 4

OR

- (p) Sedimentary deposits 4
- (q) Mechanical concentration deposits 4
- (r) Evaporite deposits. 4

4. Describe in detail the phase-rule. 12

OR

Describe in detail three component system. 12

5. Explain the following :

- (a) Acidic rock 4
- (b) Petrographic province 4
- (c) Dolerite-Lamprophyre. 4

OR