

Roll No .....

**MI - 403****B.E. IV Semester**

Examination, June 2015

**Geology - II****Time : Three Hours****Maximum Marks : 70**

**Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Define stratigraphy.
- b) What are different units of stratigraphy?
- c) Explain basic principles of stratigraphy.
- d) Describe palaeontological study of Gondwana fields.

OR

Explain "Standard Geological Time Scale". How it is applicable for accessing the conditions of fossils?

2. a) Enlist major Geomorphic divisions of India.
- b) Enlist important Indian Geological formations.
- c) Write general review of Indian stratigraphy.
- d) Describe in detail about "Cuddapahs".

OR

Describe in detail about "Archaeans".

3. a) What are different fundamental terms which are used in "Economic Geology"?
- b) Write processes of mineral formation.
- c) Classify genetically "Mineral Deposits".
- d) Describe the occurrence, origin and distribution of coal deposits.

OR

Describe the occurrence, origin and distribution of petroleum deposits.

4. a) Differentiate between "Metallic" and "Non-metallic" minerals.
- b) Enlist different "Precious" and semiprecious stones.
- c) Draw Mohr scale for measuring hardness of stones.
- d) Write the mode of occurrence, origin, distribution, association and industrial uses of "Al" and "Cu".

OR

Write the mode of occurrence, origin, distribution, association and industrial uses of Non-metallic minerals.

5. a) Define:
  - i) Prospecting
  - ii) Exploration
- b) Explain "Ringed Targets".
- c) Enlist different elementary methods of
  - i) Geological prospecting
  - ii) Geophysical prospecting, land
  - iii) Geochemical prospecting
- d) Explain different methods of prospecting.

OR

Describe Physiographical, Mineralogical and Stratigraphical ore Guides.