

Roll No

MI - 303**B.E. III Semester**

Examination, June 2015

Geology - I**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 Tsunami.
- b) List the products of a Volcanic eruption.
- c) Write a note on Earthquake belts of India.
- d) Explain origin of Earthquake in the light of theory of 'Plate Tectonics', giving suitable examples.

Or

Explain the Interior of the Earth, based on seismological data.

2. a) Write Moh's scale of Hardness.
- b) Differentiate between Fracture and cleavage.
- c) Describe various mineral forms and Lusture.
- d) Describe the physical properties of Feldspar group of minerals.

Or

Describe the physical properties of Mica group of minerals.

3. a) Define Texture of rocks.
- b) What is metamorphism. Give example of any four metamorphic rocks.
- c) Explain Bowen reaction series of crystallisation of magma.
- d) Describe Texture and structures of Igneous rocks.

Or

Describe types and agents of metamorphism.

4. a) How sedimentary rocks are formed.
- b) Define Erosion and Weathering.
- c) Propose a classification for sedimentary rocks.
- d) Describe common structures of sedimentary rocks.

Or

Write petrographical notes on:

- i) Conglomerate and Breccia
- ii) Shale
- iii) Limestone

5. a) Define unconformity.
- b) Define dip and strike.
- c) Describe characteristics of a geological map.
- d) Describe various types of folds.

Or

Describe various types of faults.
