



# CBCS SCHEME

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18MN36

## Third Semester B.E. Degree Examination, Aug./Sept.2020 Mineralogy , Petrology and Stratigraphy

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

1 Define Goliath lines. With a neat sketch, explain the Internal structures of the Earth. (20 Marks)

OR

2 Define Seismic Waves. Explain the different types of seismic waves and its effects on Earthquake. (20 Marks)

### Module-2

3 Define Crystalline structure. Explain the different crystal systems, with sketches and suitable examples. (20 Marks)

OR

4 Define Minerals. Explain the physical properties of following minerals :

- Rose quartz.
- Microclyme
- Phlogophyte.
- Garnish.

(20 Marks)

### Module-3

5 Define Intrusive bodies. Explain the different concordant and Discordant Igneous bodies. With suitable structural designs. (20 Marks)

OR

6 Define Texture. With neat sketches, explain the different textures in Igneous Rocks. (20 Marks)

### Module-4

7 a. Define Diagnosis. Explain the factors affecting diagnosis process in sedimentary rocks. (10 Marks)

b. Explain the physical properties of following rocks :

- Conglomerate
- Sandstone
- Shale
- Shelly limestone.

(10 Marks)

OR

8 Define Metasomatism. Explain the factors affecting metamorphism. (20 Marks)

### Module-5

9 a. Define Index fossil. Explain the conditions to form fossil assemblages. (10 Marks)

b. Define Palasoutology. Explain the different kinds of fosils and uses. (10 Marks)

OR

10 a. Define Correlation. Explain the factors affecting correlation. (10 Marks)

b. Define Stratigraphy. Explain the principles of stratigraphy. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.