



# CBCS SCHEME

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17MN33

**Third Semester B.E. Degree Examination, Jan./Feb. 2021**

## **Mining Geology - I**

Time: 3 hrs.

Max. Marks: 100

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

### **Module-1**

- 1 Define Goliath sign lines. With a neat sketch explain internal structure of earth in detail. (20 Marks)

**OR**

- 2 a. Define seismology. Explain different types of seismic waves and effects. (10 Marks)  
b. Define volcanoes. Explain how the volcanoes affect the surroundings and the earth. (10 Marks)

### **Module-2**

- 3 Define mineral. Explain the physical properties of following minerals  
a) Ortho clasp                      b) Milky quartz  
c) Biotite mica                      d) Dolomite (20 Marks)

**OR**

- 4 Define texture. With a neat sketch explain the different textures in Igneous rocks. (20 Marks)

### **Module-3**

- 5 Explain the physical properties of following rocks.  
a) Pink Granite      b) Gabbro      c) Dolerite      d) Schist. (20 Marks)

**OR**

- 6 Explain the physical properties of following rocks.  
a) Shale                      b) Limestone                      c) Quartzite (20 Marks)

### **Module-4**

- 7 a. Define Correlation. Explain the factors influencing correlation with examples. (10 Marks)  
b. Define fossils. Explain different types of fossils. (10 Marks)

**OR**

- 8 With a neat table explain the geological time scale . (20 Marks)

### **Module-5**

- 9 Define strata. With a neat sketch explain primary structures in sedimentary rocks. (20 Marks)

**OR**

- 10 a. With a neat sketch explain the properties of Folds. (10 Marks)  
b. With a neat sketch explain the properties of Joints. (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.