

End Semester/ Reappear (Semester III) Examination December, 2024

Programme: Diploma (MiE)

Course: Mining Geology I

Course Code: 8D.202

Enrolment no. _____

Full Marks: 70

Time: 3 Hrs.

Section I

1. Short Answer type questions. Answer any four.

4 x 5 = 20

- a. What are the major characteristics of internal structure of the earth?
- b. Describe the rock cycle.
- c. What is earthquake? Write its geological disturbance phenomenon.
- d. Briefly explain the branches of geology and scope of geology.
- e. Write the about importance of paleontology.
- f. Discuss the importance of contour map.

Section II

Long Answer type questions. Answer any three.

3 x 10 = 30

2. Discuss the physical & chemical properties of minerals. Also brief the properties of Pyrite, Chalcopryite, Galena & Magnetite
3. Classify the various texture and structure found in igneous rock.
4. Explain briefly the different types of characteristics of a geological map.
5. Briefly describe the formation of Sedimentary rocks and metamorphic rock with neat sketch diagram.
6. Describe the importance of Drift theory & In-situ theory.

Section III

Application based questions. Answer any one.

1 x 20 = 20

7. Evaluate a brief account of the Chemical properties of the minerals? Also elaborate Quartz Feldspar, Hematite and Mica group of minerals.
8. Describe the Process of Sedimentation? Also classify the common sedimentary rocks Slate, conglomerate, Sandstone & limestone in brief.
9. Distinguish between weathering and erosion? Describe the river erosion in weathering in brief with neat sketch diagram.
