

B.E (Min E) 4th Semester Final Examination[^]OIO
Introduction to Geology
(GEO—401)

Answer all the Questions

Time -3hrs.

Full Marks—70

- 1 .Define Strike and Dip of an inclined bed. A bed is dipping 45 degree towards 45 degree—Plot it symbolically. Draw and define 'Overturned fold' and 'Plunging fold'
2x5=10
2. What do you mean by Hardness of a mineral? Give the Moh's scale of hardness. State the relation of hardness of a mineral with the cationic radius. 2+4+4= 10
- 3.State short notes on (any four) 2.5x4=10
a)Granite b)Basalt c) Phyllite d)Schist e)Gneiss
4. State criteria of recognition of faulting.Draw diagrams of i) Strike slip fault ii) Angular Unconformity 6+2+2= 10
- 5.Discuss different types of silicate structures found in rock forming silicate minerals? 10
- 6.State physical properties,composition and common occurrences of the following minerals (any four) 5x4=20
i)Plagioclase feldspar ii)Mica iii)Chalcopyrite iv)Pyroxene v)Amphibole