NOUFALLEN

(Procheer)

Department of Geology Aligarh Muslim University

M.Sc. (Applied Geology) I Semester 2008-09 Practical Examination – ML1 (GLM-7075)

Ore Geology, Mining Geology, Structural Geology and Survey

Time: 3 Hours	Max Marks: 70
Note: Answer all questions	
Ore Geology: (18 Marks)	
Q 1(a). Identify the ore minerals in the given polished section. Describe t physical and optical properties on the basis of which you make such identifications.	the various
Q 1(b). Give a list of all ore minerals present in your specimen arranged i increasing polishing hardness.	n order of
Mining Geology: (17 Marks)	
Q 2(a). Draw a labeled diagram of open underhand stope and enlist its ad and disadvantages.	vantages 07
Q 2(b). Draw a labeled diagram of various mine openings. Briefly descripurpose and use of various mine openings.	be the
Structural Geology: (18 Marks)	
Q 3(a). Draw a geological cross section along the line (XY) in the given a map. Briefly discuss the geological history of the area.	geological
Q 3(b). Sedimentary beds on the northwestern limb of an anticline strike dip 50° NW, while those constituting the southeastern limb strike 45° 30°SE. Determine the trend and plunge of the axis of this anticline.	
Survey: (17 Marks)	
Q 4. Survey the allotted area with the help of a theodolite. Select a suital that the plan fits in the sheet provided for the purpose. Obtain at leas readings to prepare the plan.	