

NOUFAH-K.N

5406

2009-2010  
M.Sc. (III SEMESTER) EXAMINATION  
(APPLIED GEOLOGY)  
GEOPHYSICAL EXPLORATION & ENGINEERING GEOLOGY  
(GLM-9002)

Maximum Marks: 70

Duration: Two Hours

Answer all questions.

- 1.(a) Give a detailed account of gravity survey and its application to determine the subsurface geological conditions. 10
- (b) Discuss the important corrections applied to observed gravity data. 08

OR

- 1'. What is the difference between profiling and sounding methods of electrical survey? Discuss the electrical resistivity survey with special emphasis on different electrode configuration. 18
2. What is RQD? Describe RMR classification of rock mass. How does RMR contrast Q system of classification? 17
3. ✓ What are consistency limits of soil? Briefly describe the method of determination of grading of soil. 18
4. Discuss the mass movements with special emphasis on landslides and hill slope instability. 17

OR

- 4'. Briefly describe geo-technical investigations employed for tunnel alignment and transportation routes. 17