

2008 – 2009
M.Sc. (III SEMESTER) EXAMINATION
APPLIED GEOLOGY
GEOPHYSICAL EXPLORATION & ENGINEERING GEOLOGY
GLM - 9002
Maximum Marks: 70
Duration: Two Hours

Answer all the questions.

1. (i) Give a detailed account of seismic refraction survey and its application to determine the depth to bed rock. (10)
- (ii) Discuss the limitation of seismic refraction survey. (8)

OR

- 1'. Write short notes on the following: (9+9)
 - (i) Radioactive borehole logging.
 - (ii) Self Potential log and its application in geology.
 1. Briefly describe various stages of geotechnical investigations for geo-engineering projects. (17)
 3. What are Atterberg limits? Briefly describe the method of determination of liquid limit of soil by Casagrande LL apparatus. (18)
- OR
- 3'. Write short notes on the following: (9+9)
 - (a) Thixotropic clay ✓
 - (b) Liquefaction of soil.
 4. With the help of neat sketches, show the different forces that act on a dam. Discuss the importance of study of geological structures for dam site selection. (17)

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