

(5506)

2010-2011
M.Sc. (III SEMESTER) EXAMINATION
(APPLIED GEOLOGY)
GEOPHYSICAL EXPLORATION & ENGINEERING GEOLOGY
(GLM – 9002)

Maximum Marks: 70

Duration: Two Hours

Note: Answer all questions.

1. Briefly describe the outline of various well-logging techniques and discuss (18)
their applications in geological exploration.

OR

- 1' What is the principle of seismic refraction survey? Discuss its application to
find out hidden mineral deposits.
2. What is rock mass? Give a brief account of engineering classification of rock (17)
mass.
3. Define Atterberg limits of soil. Briefly describe the method of determination of (18)
liquid limit of soil by Casagrande apparatus.

OR

- 3' Write detailed notes on the following:
- (a) Natural and artificial aggregates
- (b) Alkali-aggregate reaction
4. Discuss the geotechnical investigations involved for selection of sites for dams (17)
and reservoirs.
