

B-10

2010-2011
B.Sc. (HONS.) (PART-III) EXAMINATION
(GEOLOGY)
APPLIED GEOLOGY
(GL-318)

Maximum Marks: 40

Duration: Three Hours

Answer all questions.

1. Discuss the hydro geological and geological constraints in urban land use planning. 07
- OR
- 1'. Write brief notes on the following:
- (a) Environmental laws in India
 - (b) Role of geodata in land use planning
2. Write brief notes on the following: 07
- (a) Causes and prevention of water borne diseases.
 - (b) Sources of trace elements in food products.
3. Discuss in detail the components, operating principle and applications of Global Positioning System (GPS) in geological studies. 07
- OR
- 3'. Write explanatory notes on the following:
- (a) Conical Profections.
 - (b) Data structure in GIS
4. Write brief notes on the following: 06
- (a) Stream sediment analysis in mineral exploration
 - (b) Geo botanical survey
5. Write explanatory notes on the following: 07
- (a) Classification of gem materials
 - (b) Measurement of refractive index of gemstones.
6. Briefly describe the characteristics of gemstones belonging to the Feldspar group. 06
- OR
- 6'. Write brief notes on the following:
- (a) Characteristics of garnet group of gemstones
 - (b) Corals and their importance as gemstones.