Set A

Sl. No. of Question Paper :

Unique Paper Code : 32197501

Name of the Course : **B. Sc. Hons. Geology**

Name of the Paper : Exploration Geology : DSE-I

Semester : V

Duration: 3 Hrs Maximum Marks: 75

Instructions for the candidates:

a) Attempt any four questions

b) All questions carry equal marks

- 1. Elaborate on the role of mineral industry in the national economy. Discuss major environmental concerns associated with minerals and mining industry.
- 2. Briefly describe the necessity and the stage at which the subsurface exploration is carried out. Elaborate on the radiometric survey and its application in exploring ore deposits.
- 3. Discuss the basic premises and major limitations of the geophysical surveys. Elaborate upon the magnetic method while discussing its application in exploration of ore deposits.
- 4. Elaborate on the criterion for selection of the borehole sites illustrating the answer with suitable diagrams. Discuss the parameters taken into consideration while selecting a particular type of drilling.
- 5. Describe about the basic assumptions applied during the estimation of the ore reserves. Discuss in brief, various conventional methods used for calculating ore reserves
- 6. What do you understand by the UNFC method of codification of ore deposits? Describe subdivisions of the G-axis in detail.