

M.Sc. (Part-II) Semester-III (CBCS) Examination
GEOLOGY
(Ore Geology and Mining Geology)
Paper-X

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :

- (a) Modern concept of ore genesis.
- (b) Ore deposits and plate tectonics.

OR

- (c) Wall rock alteration.
- (d) Mode of occurrence of ore bodies.

2. Describe in detail Texture paragenesis, paragenetic sequence and zoning of ores.

OR

Explain the nature, movement, migration and origin of ore bearing fluids.

3. Write in brief on the following :

- (a) Stable isotopes.
- (b) RFE.

OR

- (c) Uranium-thorium-lead isotopes.
- (d) Rubidium strontium isotopes.

4. Give an account of ores of sedimentary affiliation with examples.

OR

Describe in detail about the orthomagmatic cores of mafic-ultra mafic associations.

5. Write in brief on the following :

- (a) Diamond and percussion drilling.
- (b) Block and sub level caving.

OR

- (c) Ocean bottom mining.
- (d) Cut off grades and ore reserves.

