

M.Sc. (Geology) (NEP Pattern) Semester-IV
PSCGEOT 10 - Paper-I : Ore Geology and Ore Microscopy

P. Pages : 2

Time : Three Hours



GUG/S/25/16356

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketch wherever necessary.

1. Discuss on spatial and temporal distribution of ore deposits - a global perspective. **16**

OR

Write short notes on:

- a) Zoning of ores **4**
- b) Modern concept of ore genesis **4**
- c) Ore deposits and Plate Tectonics **4**
- d) Geological thermometers **4**

2. Discuss the Structural and Stratigraphic controls of ore localization. **16**

OR

Write short notes on

- a) Ore bearing fluids **4**
- b) Cyprus type Cu-Zn deposit **4**
- c) Physico- chemical controls of ore localization **4**
- d) Diamonds in kimberlites **4**

3. Discuss the ores of sedimentary affiliation - chemical and clastic sedimentation. **16**

OR

Write short notes on

- a) Pegmatoids **4**
- b) Kiruna type Fe-P **4**
- c) Ni/Au laterite **4**
- d) Placers and palaeoplacers **4**

4. Describe the ore microscope in details. **16**

OR

Write short notes on

- a) Textures of ores 4
- b) Structures of ores 4
- c) Microchemical elemental test 4
- d) Application of ore microscopy in mineral dressing 4

5. Write short notes on following not more than 2-3 lines. **16**

- a) Paragenesis
- b) Fluid inclusion
- c) REE
- d) PGE
- e) BIF
- f) Bauxite
- g) Polished Section
- h) Microhardness
