

M.Sc. DEGREE EXAMINATION, MARCH 2016
 GEOLOGY
 FOURTH SEMESTER
 Paper I – MINERAL EXPLORATION, MINING, ORE BENEFICIATION

Time: Three Hours

Maximum: 75 marks

(No additional sheet will be supplied)

Part – A (5x3=15 marks)

Answer any FIVE questions

Each question carries 3 marks

Each answer should be not exceed one page

1. Universal indicators
2. Secondary dispersion
3. Acid mine drainage
4. Mine gasses
5. Spectral characteristics of Tekto silicates
6. Applications of remote sensing in diamond exploration
7. Classifiers
8. Forth flotation

Part –B (4x15=60 marks)

Answer ALL questions

Each question carries 15 marks

Each answer should be not exceed 6 pages

9. Write an essay on various stages of geochemical exploration.

(Or)

10. Explain in detail about structural guides for ore search.

11. Write in detail about digital image processing.

(Or)

12. Give a detail account on applications of remote sensing in Bauxite exploration.

13. What are different sampling methods in mineral exploration

(Or)

14. Describe in detail about underground mining methods

15. Write an essay on physical consideration of mineral properties in ore dressing process

(Or)

16. Discuss in detail about magnetic and electrostatic mineral separation processes

