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## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Programme: B.Tech. Geoinformatics

Course Name: Mineral Exploration and Mining Geology

Course Code: PEGS 2006

No. of page/s: 1

Semester – 4  
Max. Marks : 100  
Duration : 3 Hrs

### Section A (7.5\*4 = 30 Marks)

- Attempt all questions
  - Maximum 60 words for each answer
1. Describe the Break Even Chart (BEC).
  2. Write short note on Mineral classification.
  3. Explain important Zinc minerals and their distribution in India.
  4. Write RMR parameters for geo-mechanics classification.

### Section B (15\*3 = 45 Marks)

- Attempt all questions
  - Maximum 200 words for each answer
5. What is Cut-off grade? Describe economic cut-off grades of some important minerals in India and the associated conditions. 5+10
  6. Define terminology used in mineral classification system. Describe Indian Standards with definition and specification. 5+10
  7. Explain National Mineral Policy, 1990. 15

Or

What is rock mass classification? Explain RQD index with rating. 5+10

### Section C (1\*25 = 25 Marks)

- Attempt any one question
  - Maximum 500 words
8. Describe the ore minerals of Copper (Cu), their occurrence and distribution with the help of major Cu-belts in India. (5+10+10)
  9. Explain Iron-ore deposits in India with the help of mineralogy, mode of occurrence, types of Iron deposits and explain mode of origin of BIF in India. (5+5+5+10)