

# COLLEGE OF ENGINEERING-PUNE

END SEM EXAM-November-2013

Subject—Geology and Ore Dressing

Division--- BTech (Metallurgy)

Marks-60

Time-3 hrs

*Instructions —*

1. All Questions are compulsory
2. Figures to the right indicate full marks
3. Draw neat figures wherever necessary.

## SECTION-1--GEOLOGY

1. What is an ore? Why it is of Economic Value? Justify by giving anyone Indian example? (10)
2. Give a brief account on the Copper Deposits of India? Give one example from Maharashtra. (10)
3. Give an brief account on the Zinc and Lead Deposits of India? (5)
4. Give a brief account on the Coal Deposits of India? (5)

## SECTION-2—ORE DRESSING.

1. State the different types of crushers used in ore dressing. Explain the working of any crusher with Details (05)
2. How is laboratory and commercial screening carried out? (05)
3. What is a need of agglomeration step in ore dressing? Explain any one agglomeration process. (05)
4. Define the classification term. Explain with neat sketch any one classifier used for classification. (05)
5. Which concentration technique used for sulphide ores? Describe the same. (05)
6. Write short note on following: (05)
  1. Magnetic concentration
  2. Mechanism of Grinding