

# CBCS Scheme

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15MN62

## Sixth Semester B.E. Degree Examination, June/July 2018 Mineral Processing and Fuel Technology

Time: 3 hrs.

Max. Marks: 80

**Note:** Answer any FIVE full questions, choosing one full question from each module.

### Module-1

- 1 a. Explain the different types of Fuels giving each fuel example. (08 Marks)  
b. Write the Caking and Coking properties of coal. (08 Marks)

OR

- 2 a. Explain the different sources of Gas occurrence and uses. (08 Marks)  
b. Write notes on mechanism of coal combustion and mention on High Temperature combustion. (08 Marks)

### Module-2

- 3 a. Write notes on Mineral Processing limitations and scope. (08 Marks)  
b. Write notes on beneficiation of coal. (08 Marks)

OR

- 4 a. Define Communication. Object and principle. (08 Marks)  
b. Write the different stages of communication. (08 Marks)

### Module-3

- 5 a. Define Crushing of ore and different types of crushing of ore. (08 Marks)  
b. Write in detail on different gravity equipments used for Mineral processing. (08 Marks)

OR

- 6 a. Write notes on Settling of solids in fluids. (08 Marks)  
b. Write notes on Mechanical classifiers. (08 Marks)

### Module-4

- 7 a. Write notes on Heavy media separation by cyclones. (08 Marks)  
b. Write notes on the floatation of coal. (08 Marks)

OR

- 8 a. Write notes on Reagent in froth floatation methods. (08 Marks)  
b. Write notes on Electrical method of Concentration, Application and Limitation. (08 Marks)

### Module-5

- 9 a. Write the Procedure for float and sink test. (08 Marks)  
b. Write notes on Washability curves uses and application. (08 Marks)

OR

- 10 a. Draw notes on flow sheet for copper ore treatment for extraction of copper. (08 Marks)  
b. Write notes on Principle of the Thickening and its application. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.