

Code No: RT32262

R13**SET - 1****III B. Tech II Semester Regular/Supplementary Examinations, April - 2018**
MINERAL ENGINEERING & FUEL TECHNOLOGY

(Mining Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- 1 a) Define mineral processing? [3M]
- b) Define Concentration? [4M]
- c) Define the term "Flow ability"? [3M]
- d) List the Classification of Indian coals? [4M]
- e) List the Factors effecting the flotation of coal? [4M]
- f) List the Factors to be considered to choose a fuel for particular purpose? [4M]

PART -B

- 2 a) List the factors effecting rate of screening? [4M]
- b) With neat sketch, explain cone crusher? [8M]
- c) Explain the movement of solids in fluids? [4M]
- 3 a) Explain the Gravity method of separation? [3M]
- b) Describe the tabling method? [8M]
- c) State the merits and demerits of Tabling Method? [5M]
- 4 a) Explain the Role of Ore microscope in Mineral Processing? [8M]
- b) Explain the Materials Handling operations? [8M]
- 5 a) Explain the Origin and formation of coal? [8M]
- b) Explain the Ultimate analysis of coal? [8M]
- 6 a) Describe about the "Baum Jig"? [8M]
- b) Explain the Heavy medium cyclone process? [8M]
- 7 a) Explain the Manufacturing methods of coke? [8M]
- b) State the merits and demerits of Solid, liquid and gaseous fuels [8M]
