

Code No: **R32262****R10****Set No. 1****III B.Tech II Semester Supplementary Examinations, April - 2018****MINERAL ENGINEERING & FUEL TECHNOLOGY**

(Mining Engineering)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) What is comminution? Write the various types of comminution techniques with neat sketches. [8M]
b) Discuss the working principle of Ball mill with neat sketch. [7M]
- 2 a) What is particle size distribution? Discuss the techniques of particle distribution with neat sketches. [8M]
b) What is d_{50} ? Describe the method of determining the d_{50} . [7M]
- 3 a) What is jigging? How does it helpful in the mineral processing? [8M]
b) What is HMS? Discuss the working principle of HMS with a neat sketch. [7M]
- 4 a) What is Tabling? Discuss the working principle of Tabling with a neat sketch. [8M]
b) Discuss the floatation techniques with a neat sketch. [7M]
- 5 a) Write the flow sheets for coal deposit. [8M]
b) Discuss the electrostatic separation technique with a neat sketch. [7M]
- 6 a) Describe the washability curve with neat sketch. [8M]
b) Discuss the coal cleaning technique with a neat sketch. [7M]
- 7 a) Discuss any one method for manufacturing of coke with a neat sketch. [8M]
b) List the properties of coal. [7M]
- 8 a) Discuss the classification of fuels. [8M]
b) Write the petroleum deposits in India and give its present scenario [7M]
