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10MN661

Sixth Semester B.E. Degree Examination, Jan./Feb. 2021
Fuel Technology and Coal Preparation

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. What are the different sources of energy? Explain in detail about the Tidal energy. (10 Marks)
b. Write a note on Gasification of Solid fuels. (10 Marks)
- 2 a. Write a short note on ultimate Analysis and Calorific value. (10 Marks)
b. Write a detailed note on coking of coal. (10 Marks)
- 3 Explain in detail about coal carbonisation and its types. (20 Marks)
- 4 a. Explain about classification of petroleum. (10 Marks)
b. Explain about the Blast furnace gas. (10 Marks)

PART – B

- 5 a. Write a detailed note on need for coal beneficiation. (10 Marks)
b. Write a detailed note on scope for coal beneficiation. (10 Marks)
- 6 With washability curves sketch, explain its construction in detail. (20 Marks)
- 7 a. Write a note on near Gravity materials. (10 Marks)
b. Write a note on washability number. (10 Marks)
- 8 a. Explain about the various equipments used in screening operations. (10 Marks)
b. Explain about the basic studies needed for the planning of coal beneficiation plants. (10 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.