

Sixth Semester B.E. Deg

Sixth Semester B.E. Degree Examination, June/July 2019 Fuel Technology and Coal Preparation

Time: 3 hrs.

BANGA

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

1	a.	Define energy. Explain advantages and disadvantages of nuclear energy.	(10 Marks)
	b.	Explain classification of fuels with a suitable examples.	(10 Marks)
2	a.	Give a classification of coal based on their rank.	(10 Marks)
	b.	Define Calorific value. Explain proximate analysis of coal.	(10 Marks)
3	a.	With neat sketch, explain low temperature carbonization of coal.	(10 Marks)
5	b.	Give an account of mechanism of combustion process.	(10 Marks)
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4	a.	Define petroleum. Explain how petroleum is processed.	(10 Marks)
	b.	Define natural gas? Explain the uses of methane gas in coal mines.	(10 Marks)
		PART – B	
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5	a.	Explain scope for coal beneficiation in India.	(10 Marks)
	b.	How you will operate a coal mine by using beneficiation plants.	(10 Marks)
6	a.	Explain the procedure to follow float and sink test.	(10 Marks)
	b.	With a neat graph explain washability curve and its use in coal mines.	(10 Marks)
7	a.	Explain interpretation of tramp curve near gravity material.	(10 Marks)
,	b.	Define wahsability of coal. Explain washability index.	(10 Marks)
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8	a.	Write a note on equipments used in coal beneficiation.	(10 Marks)
	b.	Explain principles we used to coal washing systems.	(10 Marks)

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