## Code No: 158DV JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech IV Year II Semester Examinations, July/August - 2022 SOLID FUEL TECHNOLOGY (Electrical and Electronics Engineering)

Time: 3 Hours

Max.Marks:75

## Answer any five questions All questions carry equal marks

1.a) b)	What do you understand by the terms – type, rank, class and grade of coal? What are petro logical constituents in coal? How do they affect its property?	[7+8]
2.	What are the characteristics of major coalfields?	[15]
3.a)	What are the applications of coal petrography?	
b)	Explain the Air dry basis and Dry mineral matter free basis of coal analysis.	[7+8]
4.	Differentiate between Intrinsic mineral matter and extrinsic mineral matter.	[15]
5.	What are the two different methods of coal analysis? What different constit analysed under these two types of coal analysis? Give their utility.	uents are [15]
6.	Describe the changes in coal fluidity with temperature noted by Gieseler plastome How is this test useful in coke making process?	ter test. [15]
7.	How are the physical properties like colour, fracture and specific gravity constituents useful in coal cleaning process?	of coal [15]
8.	Discuss in detail about dry and wet methods of coal cleaning.	[15]

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