BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION SP2023)

CLASS: B.Tech BRANCH: MECHANICAL ENGG. SEMESTER : VI SESSION : SP/2023

SUBJECT: ME359 POWER PLANT ENGINEERING

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TIME:2 Hours		FULL MARK	FULL MARKS: 25		
2. Atter 3. The r	CTIONS: question paper contains 5 questions each of 5 marks and total 25 marks. npt all questions. nissing data, if any, may be assumed suitably. es/Data handbook/Graph paper etc., if applicable, will be supplied to the	candidates			
Q.1(a)	Describe the principle types of power plant?	[2]	CO CO-1	BL L-2	
Q.1(b)	What are the elements of modern power plant. Explain any two of them.	[2]	CO-1	L-1	
Q.2(a)	How are the power plant classified?	[2]	CO-1	L-2	
Q.2(b)	State the advantages and disadvantages of hydro-electric power plant	[3]	CO-1	L-1	
Q.3(a) Q.3(b)	Explain the importance of central power station. Differentiate between fire tube and water tube boiler.	[2] [3]	CO-1 CO-2	L-1 L-4	
Q.4(a)	How are the boiler classified?	[2]	CO-2	L-2	
Q.4(b)	Explain briefly the different types of coal.	[3]	CO-2	L-1	
Q.5(a) Q.5(b)	State the steps/stages are involved in coal handling systems. Explain with neat sketch working principle of spreader stoker.	[2] [3]	CO-2 CO-2	L-1 L-1	

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