



JAIN COLLEGE OF ENGINEERING & RESEARCH, BELAGAVI

Programme: Mechanical Engineering

CONTINUOUS INTERNAL EVALUATION-I

Semester: 8th

Course: Energy Engineering

Course Coordinator: Prof. Praveen.K.Patil

Code: 18ME81

Date: 17/3/2023

Max. Marks: 50

Duration: 1 Hour 30 Min

Note: Answer any one full question choosing from each part.

Part -A				
Q. No.	Question	Marks	CO	R.B.T Level
1 a)	Explain working of steam power plant with neat sketch	9	CO1	L2
1 b)	Explain construction and working of Velox Boiler With neat sketch.	9	CO1	L2
1 c)	Explain High velocity Hydraulic Ash handling process with neat sketch.	7	CO1	L2
OR				
2 a)	Illustrate steps involved in coal handling system with flowchart..	9	CO1	L2
2 b)	Explain Balanced Draught system with Neat sketch. List its advantages	9	CO1	L2
2 c)	Illustrate the need of boiler accessories and describe any one boiler accessories with neat sketch.	7	CO1	L2
Part -B				
3 a)	Explain Vapour dominated geothermal power plant with T-S Diagram.	9	CO3	L2
3 b)	Explain liquid dominate single flash geothermal system with neat sketch.	9	CO3	L2
3 c)	Explain single basin Tide cycle power plants with neat sketch.	7	CO3	L2
OR				
4 a)	Explain double basin Tide cycle power plants with neat sketch and list Advantages and disadvantages of tidal energy.	9	CO3	L2
4 b)	Explain with neat sketch working and basic components of wind energysystems.	9	CO3	L2
4 c)	What are the factors to be considered for site selection of wind energy plants?	7	CO3	L1

Signature			
Name	Praveen K Patil	Prof. Karthik R	Dr. Nandeesh. Mathad
	Course Coordinator	Domain Expert	HOD