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VI SEMESTER B.TECH. (MECHANICAL ENGG.) END SEMESTER EXAMINATIONS, JUNE 2017

SUBJECT: POWER PLANT ENGINEERING [MME 4031] REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitably assumed.

1A.	Define the following with suitable mathematical equations: (a) Load factor (b) Plant Use factor	03
1B.		04
1C.	Explain the various investigations carried out during the process of site selection for a power plant.	03
2A.	Sketch and explain the principle of overfeed stoker.	04
2B.	With a neat sketch explain the working of Hydraulic ash handling system.	04
2C.	Give the classification of hydro-electric plants.	02
3A.	Sketch and explain the working of induced draught.	04
3B.	With the help of a diagram explain the working principle of La Mont boiler.	04
3C.	Explain the principle of nuclear fission reaction.	02
4A.	Explain the working principle of closed cycle gas turbine plant.	03
4B.	Explain the following: (a) Pondage (b) Catchment Area	04

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4C.	Explain any two engine starting system employed in a diesel engine plant.	03
5A.	Sketch and explain the principle of Boiling water reactor.	04
5B.	Explain the following: (a) Moderator (b) Control rods.	03
5C.	List any three advantages and disadvantages of air cooling systems for a diesel engine plant.	03

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