Total No. of Printed Pages:2

## SUBJECT CODE NO:- H-451 FACULTY OF SCIENCE AND TECHNOLOGY

## **B.E.** (Mechanical)

## Elective-I: Power Plant Engineering (REVISED)

[Time: Thre	ee Hours]	[Max. Marks: 80]
N.B	Please check whether you have got the right question paper.  1) Solve any two questions from each section.  2) Figures to the right indicate full marks.  3) Q.1 and Q.6 are compulsory.  4) Assume suitable data, if necessary.	
	Section A	
_	Explain in detail effect of variable loading on a power plant.  Explain coordination of power from different sources.	06 06
	Explain in detail dry system and wet system of ash disposal.  Explain the factors considered for site selection of a thermal power plant.	07 07
	Explain in detail types of engines used in diesel power plant.  Explain in detail layout of low capacity diesel power plant.	07 07
_	Elaborate ash handling and dust collection system in thermal plants. Explain in detail two lubrication systems used in diesel engines.	07 07
Q.5	<ul> <li>Write short notes on.</li> <li>a) Super charging of diesel engine.</li> <li>b) Over feed stokers.</li> <li>c) Cooling system for diesel engines.</li> </ul>	05 05 04
	Section B	
= 0 / 10 / 23 10	Explain in detail performance and operational characteristics of power plant. Explain a Dam and different types of dam.	06 06
~ /~ / 2 / / / / / / / / / / / / / / / /	Explain in detail working principle of PWR reactor. Explain general components of nuclear reactor.	07 07
The AU TO THE AU	Explain in detail four different types of spillways with neat sketches. Explain surge tank and different types of surge tanks.	07 07
J 77/ /// // // // // // // //	Explain in detail Sodium Graphite Reactor. Explain in detail gas cooled reactor.	07 07

## **Examination NOV/DEC 2018**

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0.10	White the standard	
Q.10	Write short notes. a) Hydrograph.	05
	b) CANDU reactor.	
	c) Storage and Pondage.	04

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