ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

School of Engineering & Technology

DEPARTMENT OF MECHANICAL ENGINEERING

CLASS:- BE ME 1	SEM:- VII
SUBJECT:- PPE	DATE:- 25/ 10/ 2016
DURATION:- 60 min.	MARKS:- 20

UNIT TEST 02

	Q.01 Attempt any two: (08 Marks)	marks	CO
a)	1. Explain following in detail a. PWR b.CANDU	04 (CO-CO-5	
b)	Enlist and Explain Site Selection Criterion for Thermal and Nuclear Power Plant	04	CO-5,4
c)	Explain arrangement of combined cycle power plant	04	C06
d)	Elucidate coal handling system in detail	04	C04

	Q.02 Compulsory Questions		
a)	A yearly load duration curve of a turbine power plant is a straight line from 45,000kW to 5000kW. The load is taken by a power plant which consists of two units of 10000kW. Determine a. Load Factor b.Capacity factor of the plant	06	C07

b)	Two electrical units used for same purpose compared for economical working :
	     a. Cost of first units is Rs 5000 and it takes 100kW
	     b. Cost of seconds units Rs 14000 and it takes 60 kW
	 Each of them has a useful life of 40000 hrs. Which units will prove economical if the energy is charged at Rs 80 per kW of maximum demand per year and per kW-hr? Assume both units run at full load
		06	CO7