

SUBJECT CODE NO:- P-154
FACULTY OF ENGINEERING AND TECHNOLOGY
B.E.(Mech) Examination May/June 2017
Elective-I: Power Plant Engineering
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

N.B	i)Q. No. 1 and 6 are compulsory ii) Solve any two question from remaining in each section A & B iii) Assume suitable data	
	Section A	
Q.1	a) Explain site selection for thermal power plant	6
	b) Explain steps in coal handling system	6
Q.2	a) Explain as handling system in detail	7
	b) Explain how combustion takes place in overfeed and underfeed stroker	7
Q.3	a) Explain the factor which are considered for sleeting diesel power plant	7
	b) Explain cooling system in diesel power plant	7
Q.4	a) Explain future trends in power industry	7
	b) Explain different sources of energy	7
Q.5	a) Write short notes on i) cold dust and its control ii) Supercharging's of diesel engine iii) unit Coal handling	5 5 4
	Section B	
Q.6	a) Explain construction and working of nuclear power plant	6
	b) Explain construction and working of BWR reactor	6
Q.7	a) What is Kaplan turbine? Explain	7
	b) Explain water hammering effect and importance of surge tank	7
Q.8	a) Explain Dam in detail	7
	b) Explain spill way and its types	7
Q.9	a) Explain Environment aspects of power generation	7
	b) Explain tariffs in detail	7
Q.10	Write short notes on i) Advantages of hydro-electric power plant ii) CANDU Reactor iii) Effect of Nuclear Radiation	5 5 4

2017