

Q-3	Attempt all questions	(14)
A	Explain in detail about all the four circuit of TPP with neat sketch.	7
B	With diagram explain benson boiler and also write advantages & disadvantages.	7
Q-4	Attempt all questions	(14)
A	With neat sketch explain principle of operation of Underfeed feeder.	4
B	With neat sketch, advantages & disadvantages explain about Electrostatic precipitators	5
C	With neat sketch explain about Deaeration feed water treatment.	5
Q-5	Attempt all questions	(14)
A	With neat sketch explain about pneumatic or vacuum ash handling system.	4
B	With neat sketch explain working of traveling grate stoker and also write advantages & disadvantages.	5
C	Calculate the mass of flue gasses flowing through the chimney when the draught produced is 1.9 cm of water. Temperature of flue gases is 290c and ambient temp. is 20c. The flue gasses formed per kg of fuel burnt are 23kg. Neglect the losses and take the diameter of chimney as 1.8m.	5
Q-6	Attempt all questions	(14)
A	Derive the equation of Chimney height & diameter.	7
B	Describe with the help of neat sketch the construction working of a CANDU reactor. What are its advantages & disadvantages?	7
Q-7	Attempt all questions	(14)
A	With the help of neat sketch explain about any one lubrication system.	4
B	Discuss different troubles caused by the impurities in water.	5
C	Describe with the help of neat sketch the construction working of a PWR. What are its advantages & disadvantages?	5
Q-8	Attempt all questions	(14)
A	Name Important gases pollution discharged by thermal power plants .How are they controlled?	7
B	With neat sketch briefly explain about essential elements of Hydroelectric power plant.	7

