Q. P. Code: 25179

(3 Hours) [Total Marks: 80]

- N.B.: (1) Question No.1 is compulsory.
 - (2) Attempt any three from remaining questions.
 - (3) Figures to right indicate full marks.

1. (a) (b) (c) (d)	Explain nuclear fission and fusion. Explain load curve and load duration curve.	5 5 5 5
2. (a) (b)	Explain the working of PV cell with neat diagram. Explain working of liquid metal fast breeder reactor with diagram.	10 10
3.(a)		10
(b)	plant. Explain pressurized water reactor (PWR) mention its advantages and disadvantages.	10
4.(a) (b)	Explain horizontal and vertical axis wind turbine. With neat labeled diagram explain the working of fuel cell.	10 10
5.(a) (b)	1	10 10
6.(a)	The maximum demand of power station is 96000KW. It has to supply the load as	10

a) Draw load curve and load duration curve

6-8

60

b) Calculate load factor

0-

6 48

Time(hrs)

Load(MW)

(b) Explain induced drought and forced drought fans in thermal power plant.

12-

14

60

8-

12

72

14-

18

84

18-

22

96

22-

24

48
