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Question Paper Code: 59373

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Open Elective

Civil Engineering

15UEE973 - SOLAR POWER PLANTS

(Common to CSE,ECE,EIE,Mechanical,IT,Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART –A (5 x 20= 100 Marks)

1. (a) Explain with a neat sketch the working of a thermal electric power plant station and discuss the function of major components involved in it. CO1 -U (20)

Or

- (b) With the help of a sketch show all important parts of nuclear reactor. Describe briefly the function of each part. Give the merits & demerits of the nuclear power plants. CO1- U (20)

2. (a) Compare the different types of Reheat cycle with neat diagram. CO2 -Ana (20)

Or

- (b) Analyze the performance of binary cycles and combined cycles. CO2 -Ana (20)

3. (a) Explain the types of reflectors and dish systems in solar thermal power plants. CO3- U (20)

Or

- (b) Explain the basic principles of solar thermal power plants with neat block diagram. CO3 -U (20)

4. (a) Discuss in detail about the operation of standalone photovoltaic system. CO4 -Ana (20)

Or

(b) Discuss then operation of grid connected Systems in PV plants CO4 -Ana (20)

5. (a) Classify the types of fixing power tariff. CO5 -Ana (20)

Or

(b) Explain life cycle cost & Payback period. CO5 -Ana (20)