

**'T' Scheme
Sample Question Paper**

Program Name : Electrical Engineering Program Group
Program Code : EE/EP/EU
Semester : Sixth
Course Title : Utilization of Electrical Energy
Max. Marks : 70

22626

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Sub-questions in a main question carry equal marks.
- (5) Assume suitable data if necessary.
- (6) Preferably, write the answers in sequential order.

Q.1 Attempt any Five of the following.

(10 Marks)

- a) Define the following terms with reference to illumination
i) MSCP ii) Coefficient of Utilization.
- b) State Lambert's cosine law of illumination.
- c) Write the classification of resistance welding.
- d) Define group drive and individual drive.
- e) List any four requirements of an ideal traction system.
- f) Explain any four desirable characteristics of tariff.
- g) List any four causes of low power factor.

Q.2 Attempt any Three of the following.

(12 Marks)

- a) Draw a neat labeled diagram of the conventional fluorescent tube light. State the function of choke and starter in it.
- b) Draw V-I characteristics of an electric arc. Describe how arc length affects the arc stability.
- c) Define mechanical power transmission system of electric drive. List out its types.
- d) Describe any four advantages of 25 kV A.C. traction system.

Q.3) Attempt any Three of the following.

(12 Marks)

- a) Describe the main features and areas of applications for
i) Semi-direct and ii) Indirect lighting schemes.
- b) Explain with a neat labeled schematic diagram the working of the Ajax Wyatt furnace.
- c) Explain with necessary circuit diagram, plugging applied to D.C. series motor.
- d) Describe a tariff mainly used to prepare bill for i) L.T. Residential consumer ii) H.T. Industrial consumer.

Q.4) Attempt any Three of the following.

(12 Marks)

- a) List any four equipment's used in arc furnace with their application.
- b) Draw the curve and estimate suitable H.P. of motor having following duty cycle:
 - 1) Rising load from 200 to 400 H. P. - 4 minute
 - 2) Uniform load of 300 H.P. - 2 minute
 - 3) Regenerative braking from 50 to zero H.P. - 1 minute
 - 4) Idle for - 1 minute

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