

**'I' 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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web the fmp30c is designed to measure the ferrite content in the range of 0 1 80 fe or 0 1 110 fn using the magnetic induction method applications include austenitic cladding or welds in stainless steel pipes containers boilers

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web the feritscope fmp30 measures according to the magnetic induction method a magnetic field generated by a coil begins to interact with the magnetic portions of the specimen the changes in the magnetic field induce a voltage proportional to the ferrite content in a second coil

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$$2\text{Cu} + 2\text{AgNO}_3 \rightarrow 2\text{Ag} + \text{Cu(NO}_3)_2$$

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web a write a balanced equation for the reaction al o₂ al₂o₃ 4 al 3 o₂ 2 al₂o₃ b determine the theoretical yield of al₂o₃ 160 0

g al x 1 mol al x 2 mol al₂O₃ x 101 964 g al₂O₃ 302 3 g al₂O₃ 26 982 g al 4 mol al 1 mol al₂O₃ c determine the percent yield
 yield actual x 100 260 0 g x 100 86 01 theoretical 302 3 g

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 weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12
 c is the limiting reagent 4 33 g of h 2 are left over 13

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 from a set of reactants calculate how much product will be produced from the limiting reagent calculate how much reactant s
 remains when the reaction is complete

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web the percent yield is calculated as follows text percent yield $\frac{\text{actual yield}}{\text{theoretical yield}} \times 100$ percent
 yield theoretical yield actual yield 100 based on this definition we would expect a percent yield

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 how much product will be produced from the limiting reactant calculate how much reactant s remains when the reaction is
 complete

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 ch₃oh can be produced by the following reaction 2h₂ co ch₃oh calculate the theoretical yield of ch₃oh if 68 5 g of co is
 reacted with 8 6 g of h₂

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 reaction

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 which reactant is limiting assuming we started with 30 0 grams of ammonium nitrate and 50 0 grams of sodium phosphate
 what is the

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 80 g I_2O_5 1 mol I_2O_5 1 mol I_2 xs 1 333.8 g I_2O_5 1 mol I_2O_5 28 g CO 1 mol CO

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