

'T' Scheme

Sample Question Paper

Program Name : Electrical Engineering Program Group
Program Code : EE/EP/EU
Semester : Third
Course Title : Electrical Materials and Wiring Practice
Max. Marks : 70

22328

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) Explain the need for following safety rules while working in electrical installations.
- b) Draw the labeled hysteresis loop for an electromagnetic material.
- c) Write any two properties of electrical insulating materials.
- d) State the need for thermal classification of electrical insulating materials.
- e) Explain in brief dielectric failure of cables.
- f) Write the names of any four components used in electrical wiring.
- g) Define earthing related to electrical wiring systems.

Q.2 Attempt any Three of the following.

12 Marks

- a) Write any four of the IE rules to be followed in respect of safety while working on electrical installation systems.
- b) Explain the suitability of aluminum as a conductor with respect to its electrical and mechanical properties.
- c) Explain the electrical, mechanical and thermal properties of mica that make it useful as an electrical insulating material.
- d) A residential unit has a sanctioned load connection of 3.5 kW. Determine the ratings of the main incoming cable/conductor, main switch and the ELCB.

Q.3 Attempt any Three of the following.

12 Marks

- a) Explain the use of the following tools in carrying out electrical wiring installations, i) Nose pliers, ii) Test lamps, iii) Crimping tools and iv) Cutter.
- b) State two applications along with the insulation class and its temperature for the following materials: i) Bakelite sheets and ii) PVC.
- c) Explain with neat labeled diagram the godown wiring system for lighting with one pilot room and two subsequent store rooms.
- d) Explain the uses of safety rubber hand gloves and rubber mats in electrical engineering.

Q.4 Attempt any Three of the following.

12 Marks

- a) Explain the use of the following components in electrical wiring systems and give specifications of each; i) one MCB and ii) one ELCB.
- b) Explain with justification two uses of each of the following as electrical conductors:

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