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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(EEE) (Sem.-6)
ELECTRIC DRIVES AND UTILIZATION
Subject Code : EE-304
Paper ID : [A0420]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a. What is electric drive?
- b. What is load?
- c. What is fly wheel effect?
- d. How do you define span?
- e. What is the difference between single phase and multi phase system?
- f. What is arc welding?
- g. What do you understand from flood light?
- h. Define artificial light source.
- i. Name the laws of electrolysis.
- j. What is refrigeration?

SECTION-B

2. What is the significance of electric heating? Give the constructional details of resistance heating furnace.
3. What is the significance of operating and starting characteristics of electric motors?
4. What is electric traction system? What are its types? Explain them.
5. What is the difference between AC and DC welding systems? Discuss the applications of AC and DC welding.
6. What is domestic refrigeration system? How it works? Explain.

SECTION-C

7. What is illumination? How light is produced by different methods? What are the laws of illumination? How the lightening schemes function? What equipment is used for indoor lightening?
8. Discuss about the single phase feeding arrangement prevalent in India. Also discuss about catenary construction and line insulation.
9. What is the difference between refrigeration and air conditioning? Explain with neat diagrams.