

Solved Question Paper: Utilization of Electrical Energy & Electric Traction (KEE079)

B.Tech (Semester VII) Theory Examination 2021-22

Total Marks: 100

Time: 3 Hours

SECTION A (10 x 2 = 20 Marks)

1. a. Explain conduction mode of heat transfer.
2. b. How is control of power affected in electric air arc furnaces?
3. c. Define the term electric welding.
4. d. What are the various current collection systems?
5. e. Why is tungsten selected as the filament material?
6. f. State and explain refrigeration process.
7. g. Give examples of various traction systems in daily life.
8. h. What is meant by schedule speed of a train?
9. i. Why the magnetic circuit of a traction motor is not made of cast iron?
10. j. State the significant features of traction drives.

SECTION B (Attempt any 3 questions - 10 x 3 = 30 Marks)

11. a. Explain the working of arc furnaces and describe with the help of a sketch the construction and working of any one type of arc furnace.
12. b. Explain arc blow effect at the edges and due to ground currents. What are the advantages of using coated welding electrodes?
13. c. Define air conditioning. On what factor does the air conditioning depends? Explain in detail.
14. d. The distance between two stops is 1.4 Km. A Schedule speed of 50 kmph is required to cover that distance. The stop is of 20-s duration. The values of the Acceleration and retardation are 2 kmphp and 3 kmphp, respectively. Then, Determine maximum speed over the run. Assume a simplified trapezoidal speed-time curve.
15. e. Explain the theory, working and characteristics of linear induction motor for traction purposes.

Question Paper Of Electric Traction Subject

JA Banks



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