# 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?
- f. State and explain refrigeration process.
- 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)

- 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 are blow effect at the edges and due to ground currents. What are the advantages of using coated welding electrodes?
- 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.
- e. Explain the theory, working and characteristics of linear induction motor for traction purposes.

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**Marco Cascella** 

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