

No. of Printed Pages : 4
Roll No.

180955

5th Sem., Branch : Elect
Subject : Utilization of Electrical Energy

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 For ARC heating electrodes are made of (COE1)
a) Copper b) Aluminium
c) Graphite d) ACSR
- Q.2 Ajax Wyatt furnace is used for melting (COE1)
a) Ferrous material b) Non ferrous material
c) Steel d) Insulating material
- Q.3 For the transmission of heat from one body to other (COE1)
a) Temperature of two bodies must be different
b) Both bodies must be solid
c) Both bodies must be in contact
d) Both bodies must be placed apart
- Q.4 Projection WELDING is (COE2)
a) Multiple spot welding
b) Continuous spot welding
c) Used to form mesh
d) All above

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- Q.5 Current flow through an electrolyte is due to movement of (COE1)
a) Ions b) Ions & Holes
c) Holes d) None of above
- Q.6 Size of domestic refrigerator is given n (COE4)
a) Liter b) Ton
c) Watt d) Meter
- Q.7 Resistance of earth wire should be (COE5)
a) Infinite b) Low
c) High d) Very Low
- Q.8 On the main line service importance is given to (COE6)
a) Acceleration b) Braking
c) Speed d) Retardation
- Q.9 Textile mill use (COE5)
a) Schrage motor b) Slip ring I.M.
c) DC Motor d) Universal Motor
- Q.10 Supply frequency in 25KV single phase system is (COE6)
a) 60Hz b) 50Hz
c) 25Hz d) 16Hz

Section-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Insulated materials can be heated only by _____. (COE1)
- Q.12 Modes of heat transfer are _____. (COE2)
- Q.13 MIG stands for _____. (COE5)

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- Q.14 For small domestic appliances _____ Motor is used. (COE5)
- Q.15 Transformer used in welding is called _____. (COE2)
- Q.16 Desert cooler can function only during _____ season. (CO4)
- Q.17 Butt welding is used for welding _____. (CO2)
- Q.18 Radiant heating is used for _____. (CO1)
- Q.19 Electroplating is eletctrodeposition (True/ False) (COE3)
- Q.20 In railway _____ is used as return conductor. (COE6)

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Explain ECO friendly refrigerants. (COE4)
- Q.22 Write short note on kando system of electric traction. (COE6)
- Q.23 What is braking? Explain plugging. (COE5)
- Q.24 What is chain drive. Compare belt and chain drive. (COE5)
- Q.25 State desirable properties of resistance heating element. (COE1)
- Q.26 Differentiate Tig and Mig welding. (COE3)
- Q.27 What is Galvanizing process. State its disadvantages. (COE3)
- Q.28 Explain the role of flywheel attached with electric drive. (COE6)

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- Q.29 Explain faradays law of electrolysis. (COE3)
- Q.30 What are the factors affecting schedule speed. (COE6)
- Q.31 Draw the electric circuit used in domestic refrigerator. (COE6)
- Q.32 What are the applications of Dielectric Heating in industry. (COE1)
- Q.33 What are the advantages of electric welding? (COE2)
- Q.34 Explain the term current efficiency and energy efficiency used in electrolytic process. (COE3)
- Q.35 Write short note on electric multiple unit (EMU) Trains. (COE6)

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x10=20)

- Q.36 Describe the construction, operation and applications of electric arc furnace. (COE1)
- Q.37 Define electric braking. Explain plugging and regenerative braking with neat sketch. (COE6)
- Q.38 How do you select a motor for the particular job. Also explains method of power transfer using belt drive and chain drive? (COE5)

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