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4th Sem / Electrical

Subject : Utilization of Electrical Energy

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Candela is the unit of (CO1)

a) Flux

b) C. Luminous intensity

c) Illumination

d) Luminance

Q.2 Electrodes used for direct resistance heating are made of_____ (CO2)

a) Mild steel b) Copper

c) Brass d) Graphite

Q.3 Resistance welding is suitable for (CO3)

a) Repair b) Both A & C

c) Production d) None of these

Q.4 Throwing power can be improved by_____the distance between anode and cathode (CO4)

a) Decrease b) High

c) Increase d) None of these

Q.5 Size of domestic refrigerator is given in (CO3)

a) Litre b) Ton

c) Watt d) Meter

Q.6 A weld is _____joint (CO2)

a) Permanent b) Temporary

c) Week d) None of these

Q.7 Tungsten filament lamp contain (CO1)

a) Vacumme b) Nitrogen

c) Oxygen d) Hydrogen

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Illumination. (CO1)

Q.8 Dielectric heating is some time called_____. (CO2)

Q.9 Define anodising process. (CO3)

Q.10 In DC series motor field winding is connected in series with_____. (CO5)

Q.11 Expand CFL (CO1)

Q.12 Single phase to DC system is also called_____. (CO5)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain inverse square law. (CO1)

Q.14 State advantages of Electric heating process. (CO2)

Q.15 State different between tig and mig welding. (CO2)

Q.16 Explain faradays law of electrolysis (CO3)

Q.17 Draw Electrical Circuit Of Household Refrigerator. (CO3)

Q.18 Write Characteristics of Various Types of Mechanical Load (CO4)

Q.19 Why DC Series Motor is Best Suited For The Traction Work. (CO4)

Q.20 Write Difference Between Belt Drive And Chain Drive (CO5)

Q.21 Write Short Note on Emu. (CO5)

Q.22 Define Illumination Flux And Luminous Efficiency (CO1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain method of power transfer by using belt drive and chain drive method. (CO4)

Q.24 Explain series parallel control methods used for the starting and speed control of traction motor. (CO5)

Q.25 Draw and explain mercury vapours lamp. (CO1)