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Roll No.

220335

**3rd Sem/Branch : Automobile
Mech.Engg / Mechanical (Tool & Die design)
Subject : Basics of Electrical &
Electronics Engineering**

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 Ideal voltage source has _____ Resistance. (CO2)

- a) Zero
- b) 100 ohm
- c) 1000 ohm
- d) Infinite

Q.2 AJFET is also called _____ Transistor. (CO7)

- a) Unipolar
- b) Bipolar
- c) Unijunction
- d) None of the above

Q.3 The resistance of capacitive circuit is . (CO2)

- a) Directly proportional to frequency
- b) Inversely proportional to frequency
- c) Independent of frequency
- d) None of the above

Q.4 A step down transformer is used to decrease the output voltage. (CO3)

- a) True
- b) False
- c) None of these

Q.5 1 HP=_____. (CO2)

- a) 835 Watt
- b) 220Watt
- c) 400 Watt
- d) 745 Watt.

Q.6 MCB is . (CO6)

- a) Main circuit breaker
- b) Multiple circuit breaker
- c) Miniature circuit breaker
- d) Minimum circuit breaker

SECTION-B

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

Q.7 Define average volume of AC (CO7)

Q.8 What is the full form of MMF (CO2)

Q.9 Define transistor or bipolar junction transistor(CO7)

Q.10 Transformers are rated in _____. (CO3)

Q.11 Define Zener Diode _____. (CO2)

Q.12 1 watt=_____ H.P (Horse Power). (CO1)

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SECTION-C

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

- Q.13 Explain flaming left and right hand rule. (CO2)
- Q.14 Write the difference between extrinsic and intrinsic semi conductor. (CO7)
- Q.15 Explain DC motor with its application. (CO5)
- Q.16 State faraday law of electro magnet induction.(CO2)
- Q.17 Discuss in brief working of npn transistor (CO7)
- Q.18 Describe five advantages of electrical energy.(CO1)
- Q.19 State five application of isolation transformer.(CO3)
- Q.20 State precautions against electric shok. (CO6)
- Q.21 Discuss advantage and disadvantages of surface conduct system of wiring. (CO4)
- Q.22 Define the following. (CO7)
- a) Zener diode
 - b) Starter
 - c) Cycle

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SECTION-D

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

- Q.23 Explain causing and capping wiring. What are its advantage and disadvantage where it is used?(CO4)
- Q.24 Derive the emf equation of transformer . Explain primary winding Secondary winding and transformer ratio? (CO3)
- Q.25 What is the need of starter ? Explain star delta starting method with diagram. (CO5)

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