

- Q.25 Explain different types of earthing. (CO3)
- Q.26 Explain the principle of mutual induction in the transformer. (CO2)
- Q.27 Write a note on AC on a pure capacitor. (CO1)
- Q.28 Difference between DC series and shunt motor. (CO1)
- Q.29 Write the different applications of AC motors. (CO2)
- Q.30 Write the EMF equation for the transformer. (CO2)
- Q.31 Explain the various types of wiring. (CO4)
- Q.32 Define electric welding and explain its types. (CO3)
- Q.33 Explain the working principle of moving coil instruments. (CO5)
- Q.34 Write a note BJT. (CO6)
- Q.35 State the difference between analog and digital circuits. (CO6)

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the construction, working of the squirrel cage induction motor. Also write its applications. (CO2)
- Q.37 Why CE amplifiers are used over CB and CC. Explain its working principle. (CO6)
- Q.38 Classify and describe various methods of earthing with their diagram. (CO4)

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Roll No.

3rd Year / Advance Diploma in Tool and Die Making Subject:- Electrical and Electronics Engineering

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The positively charged ions are known as (CO1)
a) Protons b) holes
c) anions d) cations
- Q.2 A transistor has _____ terminals (CO6)
a) 1 b) 2
c) 3 d) 4
- Q.3 Two resistance of 4 ohm and 4 ohm are connected in series. Total resistance will be. (CO1)
a) 2 ohm b) 6 ohm
c) 4/3 ohm d) 8 ohm
- Q.4 The street lighting bulbs are connected in _____ (CO3)
a) Parallel b) Series
c) Invested series d) none
- Q.5 The primary and secondary of a transformer are _____ coupled but _____ connected. (CO2)
a) magnetically, not electrically
b) electrically, not magnetically

- c) magnetically, also magnetically
 d) electrically, also electrically
- Q.6 EMF induced in secondary winding of transformer is _____ (CO2)
 a) Statically induced EMF
 b) Self induced EMF
 c) Mutual induced EMF
 d) Dynamically induced EMF
- Q.7 The most modern methods for food processing is _____ (CO3)
 a) Eddy current heating
 b) Dielectric heating
 c) Induction heating
 d) Resistance heating
- Q.8 Which configuration is used in the amplifier? (CO6)
 a) common-emitter b) common-base
 c) common-collector d) all of the above
- Q.9 Logic gates are the circuits which allow _____ (CO6)
 a) Only 0 or 1 to pass through
 b) HI voltage and LO voltage to pass through
 c) Truth and false values
 d) All of the above
- Q.10 Earth wire or ground wire is made of _____ (CO4)
 a) copper b) aluminum
 c) iron d) galvanized steel

SECTION-B

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

- Q.11 Give any two applications of DC series motors. (CO2)
- Q.12 Unit of resistance is _____ (CO1)
- Q.13 UJT stands for _____ (CO6)
- Q.14 The resistance of earth wire should be _____ (CO4)
- Q.15 Starting torque of a DC series motor is _____ (CO2)
- Q.16 Dielectric heating is used to heat _____ materials. (CO3)
- Q.17 Wattmeter is used for _____ (CO5)
- Q.18 Draw symbol of transistor. (CO6)
- Q.19 Name two thyristor family devices. (CO6)
- Q.20 Frequency of DC is _____. (CO1)

SECTION-C

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

- Q.21 Define time period, average value, peak factor. (CO1)
- Q.22 Explain the different types of starting of the induction motor. (CO2)
- Q.23 Write a note on transistor diodes. (CO6)
- Q.24 Explain the universal gates and truth table. (CO6)