

- Q.26 Write precautions against electric shock.
 - Q.27 Define fuse and explain its classification.
 - Q.28 Write short note on identification wiring system.
 - Q.29 Write difference between low and high voltage distribution system.
 - Q.30 Describe power and energy and write the name of instrument used for measuring power and energy.
 - Q.31 Write a short note on production of e.m.f.
 - Q.32 Write advantage of electric energy over other types of energy.
 - Q.33 Write any five application of servo motor.
 - Q.34 Define transformer and its working principle.
 - Q.35 Write five differences between AC and DC.

SECTION-D

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

- Q.36 What is concept of earthing and explain various types of earthing.

Q.37 Explain connection and starting of three phase induction motor.

Q.38 Write a short note

 - a) Zener Diode
 - b) Thyristor

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1st Sem / Mech. Engg. (MSIL)
Subject:- Basics of Electrical and Electronics
Engineering

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Mains a.c. power is converted into d.c. power for _____

 - Lighting purposes
 - Heaters
 - using in electronic equipment
 - None of the above

Q.2 Which one of the following requires for transmission?

 - AC
 - DC
 - Both a and b
 - None of the mentioned

Q.3 What is frequency of D.C.?

 - Zero
 - 50 Hz
 - 60 Hz
 - None of the above

Q.4 In which device is the principle of statically induced emf used?

 - Transformer
 - Motor
 - Generator
 - Battery

- Q.5 Servomotor is a closed loop feedback control system.
a) True b) False
- Q.6 Which of the following cannot be used as a unit for frequency?
a) Hz b) BPM
c) RPM d) S
- Q.7 An induction motor works with
a) AC only b) DC only
c) Both a and b d) None of the above
- Q.8 What is the formula of Electric Power?
a) IR b) VR
c) VI d) V/I
- Q.9 Current is converted to voltage _____
a) through a voltmeter
b) through a resistance
c) through an ammeter
d) through a galvanometer
- Q.10 Semiconductor acts as an insulator in the presence of impurities
a) True b) False

SECTION-B

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

- Q.11 Draw AC and DC signal.
Q.12 What is purpose of primary winding of transformer?
Q.13 What is frequency?
Q.14 Write full form of LED.
Q.15 What are the charge carriers in semiconductors?
Q.16 Draw symbol of PNP transistor.
Q.17 Define voltage.
Q.18 Write unit of current.
Q.19 Transformer is a _____ device.
Q.20 Write full form of MCB.

SECTION-C

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

- Q.21 What is star and delta connection explain it with diagram.
Q.22 Write application of diode.
Q.23 Write five application of electricity.
Q.24 Explain MCB.
Q.25 Write five differences between single phase and three phase supply.