

- Q.27 What is phase voltage?
- Q.28 How the power is transmitted ?
- Q.29 How can you reverse the direction of induction motor?
- Q.30 List the applications of three phase motor.
- Q.31 What is the difference between circuit and sub circuit?
- Q.32 What is the purpose of earthing?
- Q.33 What is the effect of electric shock on human body?
- Q.34 Explain the ELCB.
- Q.35 Explain P type semiconductor.

#### **SECTION-D**

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

- Q.36 Explain the Type and purpose of fuse. Explain its applications.
- Q.37 Explain the plate earthing in detail.
- Q.38 What are the applications and advantages of stepper motor?

No. of Printed Pages : 4 MSIL-120136/030136  
Roll No. ....

#### **1st Sem / Mechanical Engineering (MSIL) Subject:- Basic of Electrical & Electronics Engineering**

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 AC can be generated at \_\_\_\_\_  
a) 500 kv                          b) 66kv  
c) 11 kv                            d) 500 v
- Q.2 A wattmeter has \_\_\_\_\_ coils.  
a) 2                                b) 3  
c) 5                                d) 6
- Q.3 In a circuit current is measured by \_\_\_\_\_  
a) Voltmeter                      b) Wattmeter  
c) Ammeter                        d) None of these
- Q.4 Wire through which current is flow to the supply is known as \_\_\_\_\_ wire  
a) Neutral                        b) Phase  
c) Earth                            d) None of these

Q.5 The Neutral wire color is \_\_\_\_\_

- a) Black
- b) Green
- c) Red
- d) Yellow

Q.6 1 H.P. = \_\_\_\_\_ W

- a) 736 watt
- b) 790 watt
- c) 780 watt
- d) 670 watt

Q.7 Domestic electrical installation has \_\_\_\_\_ loads.

- a) 6 kw
- b) 3 kw
- c) 5 kw
- d) 8 kw

Q.8 A fuse used in electrical circuit is a \_\_\_\_\_ device.

- a) Safety
- b) Power
- c) Accessories
- d) None of these

Q.9 Single phase energy meter has \_\_\_\_\_ terminals.

- a) 5
- b) 4
- c) 10
- d) 6

Q.10 Earthing is done to prevent \_\_\_\_\_ to the user.

- a) Shock
- b) Loss of current
- c) Loss of power
- d) None of these

## SECTION-B

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

Q.11 What is alternating current?

Q.12 What is the frequency of dc.

Q.13 Define electric current & its unit.

Q.14 What is the unit of resistance?

Q.15 Electric current is measured by

Q.16 What is star connection in three phase system?

Q.17 Why induction motor is called asynchronous motor?

Q.18 What is line voltage?

Q.19 What is the purpose of guide wires?

Q.20 What is pentavalent impurity?

## SECTION-C

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

Q.21 What is the difference between AV and DC?

Q.22 Draw the circuit diagram to measure voltage, current and power in an ac circuit.

Q.23 Explain the difference between resistance and specific resistance.

Q.24 What are the advantages of three phase system over single phase system?

Q.25 What is the effect on current when alternating voltage is applied on pure resistance?

Q.26 Explain the concept of phase difference between two sinusoidal ac quantities.