

Total No. of Questions : 5]

SEAT No. :

P527

[4917]-134

[Total No. of Pages : 2

F. Y. B. Sc. (Vocational)

ELECTRONIC EQUIPMENT MAINTENANCE (EEM)

Maintenance Concepts, Instruments and Appliances

(Paper - I) (New Course) (2013 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) Neat Diagrams must be drawn wherever necessary.***
- 2) All questions are compulsory.***
- 3) Figures to the right indicate full marks.***

Q1) Attempt all of the following:

[16]

- a) What is reliability of an instrument?
- b) What are the precautions when handling a voltmeter?
- c) What is mean by MTR?
- d) What is the function of “level knob” on front panel of CRO?
- e) What is resolution & sensitivity of instrument?
- f) What are the waveforms generated by function generator?
- g) What is typical current consumption in digital clock in different parts?
- h) What is a function of thermostat in electric iron?

Q2) Attempt any four of the following:

[16]

- a) How does reliability defined in series systems?
- b) What is pmmc movement? What are different parts of it?
- c) Explain the concept of autoranging in instrument.
- d) What are different errors that can occur in measurement?
- e) Write a short note on AF signal generator.

P.T.O.

Q3) Attempt any four of the following: **[16]**

- a) Write a short note on series type ohmmeter.
- b) Explain the working of Digital Storage Oscilloscope.
- c) Explain the working of switch mode power supply.
- d) How emergency light works? Explain it with suitable diagram.
- e) What are applications of pulse generator?

Q4) Attempt any two of the following: **[16]**

- a) Explain the working of pulse generator.
- b) Explain the working of digital clock with the help of block diagram.
- c)
 - i) Explain the working of DTMF Dialing of telephone instrument.
 - ii) What is the difference between linear & switch mode power supply.

Q5) Attempt any two of the following: **[16]**

- a) Write a short note on Microwave Oven.
- b) What is circuit breaker? What are different types of it? Explain in brief.
- c) Explain the working of Automatic electric iron.

