Q.18 Explain the circuit and connections of DC ammeter.

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Explain various methods of current measurement with various electronic instruments.

Q.20 Write short notes on:

a) Scientific notations

b) Probes

No. of Printed Pages : 4 188551
Roll No. .....

1st Sem / DVOC LEVEL 5
(Medical Imaging Technology)

Subject : Electronic Measurement and Instrumentation - I

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Multiple Choice questions. All questions are compulsory. (5x1=5)

Q.1 The errors which are always of same size and sign under certain conditions are called

a) Systematic error b) Human errors

c) Climate error d) Gross errors

Q.2 The windings of a current transformer are_____.

a) Tied together

b) Shorted

c) Wound over one another

d) Grounded

Q.3 Multirange ammeter can uses:

a) universal Shunt b) Series Shunt

c) Parallel Shunt d) None of the above

Q.4 The smallest value that an instrument can measure is

a) Accuracy b) Resolution

c) Precision d) Only B and C

Q.5 The instrument used for detecting electric current is

a) Tube tester b) Altimeter

c) Fathometer d) Galvanometer

SECTION-B

Note: Objective type questions. All questions are compulsory. (5x1=5)

Q.6 Ammeter are connected in_____

Q.7 The unit of current is_____

Q.8 The relation between Celsius and Kelvin temperature scale is_____

Q.9 Systematic error is_____

Q.10 A standard is_____

SECTION-C

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

Q.11 Explain any four SI electrical units.

Q.12 Discuss the working of digital frequency meter with its connections.

Q.13 A calculator calculates the value of 'pi' as 3.14 instead of 3.14159. Calculate the absolute and relative error.

Q.14 Discuss four metric prefixes.

Q.15 Explain with example measurement error combination.

Q.16 Write short note on various temperature scales.

Q.17 What are various dimensions? Explain.