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DVOC (Medical Imaging Technology)

Subject : Electronic Measurement & Instrumentation-I

Time : 2 Hrs. M.M. : 50

SECTION-A

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

Q.1 The error occur due to the human mistake in measurement are_____

a) random errors b) gross error
c) systematic error d) environmental errors

Q.2 Which is the correct notation of dimensional formula for Force?

a) Mass x acceleration b) Newton
c) $[M^1 L^1 T^2]$ d) m x a

Q.3 _____is the degree to which a experimental value is very near to the actual value.

a) Precision b) Resolution
c) Mean d) Accuracy

Q.4 Multirange ammeter can uses:

a) universal Shunt b) Series Shunt
c) Parallel Shunt d) None of the above

Q.5 Deflecting torque is_____quantity under measurement in PMMC instrument.

a) directly proportional
b) inversely proportional
c) directly proportional to square of
d) inversely proportional to square of

SECTION-B

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

Q.6 What do you mean by systematic error?

Q.7 What is the CGS unit of Mass?

Q.8 Define the term Resolution.

Q.9 Give the formula for converting a temperature value from kelvin to Celsius.

Q.10 What is the scientific notation of 0.00035?

SECTION-C

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

Q.11 What is the importance of scientific notations?

Q.12 What are the basic units of electricity?

Q.13 What is the difference between absolute and relative errors?

Q.14 Distinguish between accuracy and precision.

Q.15 Discuss the working of DC voltmeter.

Q.16 Explain with diagram, the working of digital frequency meter system.

Q.17 What is the importance of Dimensions? Give its examples.

Q.18 What are the advantages of transistorized voltmeters?

SECTION-D

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

Q.19 What do you mean by unit? Give the classification of Units along with examples. Also mention various systems of unit.

Q.20 Explain with block diagram, the working of digital multimeter. Also give the applications of digital multimeter.