

27 E (sem-III) Choice base Electrical Engg
EEM

QP CODE : 37841

111
02/06/18

(3 Hours)

Total Marks : 80

N.B : (1) Question No 1 is compulsory.

(2) Attempt any three out of the remaining.

(3) Assume suitable data, if necessary.

1. (a) Discuss various types of errors. How these errors are minimized ? (10)
(b) Write short on resolution and sensitivity of digital meters. (10)
 2. (a) Explain why Wheatstone Bridge is not used for measuring low value of resistance. (10)
(b) Compare the controlling torque of spring force and gravitational force (10)
 3. (a) Explain the working principle of piezoelectric transducers. (10)
(b) Explain accuracy, precision, sensitivity and resolution. (10)
 4. (a) Explain with the diagram RTD. (10)
(b) Draw the circuit diagram of De-Sauty's bridge and explain (10)
 5. (a) Draw the circuit diagram of Digital Frequency meter and explain. (10)
(b) Draw the multiplier circuit for voltmeter and explain. (10)
 6. Write short notes on the following (any two) (20)
 - (a) PMMC
 - (b) Weston type Synchroscope.
 - (c) Integrating Instruments.
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