

D.E. Electronics sem III (CB45) M-2014

Sub - EEM

QP Code : NP-18752

9/6/2014

(3 Hours)

[ Total Marks : 80

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

(2) Attempt any three questions from remaining five questions.

1. Solve all :- 20
    - (a) Explain the remedies to eliminate the errors in measurement.
    - (b) Write the specifications of analog multimeter.
    - (c) Discuss the role of delay line in CRO.
    - (d) Draw and explain the venturi meter for flow measurement.
  
  2. (a) Write short note on "Data Acquisition System". 10  
(b) Draw and explain the construction and working of dead weight tester. 10
  
  3. (a) Explain in detail voltage and frequency measurement using CRO. 10  
(b) Write short note on "Q-meter". 10
  
  4. (a) Explain the static and dynamic characteristics of instruments in detail. 10  
(b) Draw and explain the block diagram of DSO. Also write its applications. 10
  
  5. (a) Draw and explain the construction and working of linear variable differential transformer. 10  
(b) Draw and explain the construction and working of Rotameter. 10
  
  6. Write short note on :- 20
    - (i) Mega ohm bridge
    - (ii) Chop and Alternate mode of CRO
    - (iii) Capacitance sensor for displacement measurement
    - (iv) Float type method of level measurement.
-