Sr. No.....

Dec 2018

B.Tech IV SEMESTER

Electronic Instrumentation (E-204)

Time: 3 Hours	Max. Marks:60

Instructions:
1. *It is compulsory to answer all the questions (2 marks each) of Part -A in short.*
2. *Answer any four questions from Part -B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*
4. *Any other specific instructions*

PART -A

Q1 (a) What is DVM? (2)

(b) Give examples of analog transducers. (2)

(c) What are the various methods of RF power measurement? (2)

(d) What is meant by multiplexing? (2)

(e) What is a spectrum analyzer? (2)

(f) What are various types of signal generators? (2)

(g) What is meant by fluorescence? (2)

(h) Define an inverse transducer. Give an example. (2)

(i) What is data acquisition system? (2)

(j) Write the advantages of LEDs. (2)

PART -B

Q2 (a) Describe CRO with schematic block diagram and state its applications. (10)

Q3 (a) Explain the working of function generator with neat sketch diagram. (5)

(b) Explain the working of universal counter with neat sketch diagram. (5)

Q4 (a) Discuss the working principle of Q meter. (5)

(b) Explain the term "Total harmonic distortion" and describe Tuned circuit harmonic analyzer. (5)

Q5 (a) Explain the construction and working of L.V.D.T. with neat sketch diagram. Draw its output characteristics. List its advantage and disadvantages. (5)

(b) Describe the working of a digital frequency meter with schematic block diagram. (5)

Q6 (a) Discuss the working of LCD. List its advantages and disadvantages. (5)

(b) State different pressure measurement technique. Explain one of them. (5)

Q7 (a) Explain AC signal conditioning system with suitable diagram. (5)

(b) Explain the working of electronic voltmeter with schematic diagram. (5)

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