

B.Tech. SEM -IV Bio Medical 2014 Course (CBCS) : WINTER - 2018
SUBJECT- ELECTRONIC INSTRUMENT & MEASUREMENT SYSTEM

Day: Thursday
Date: 15/11/2018

W-2018-2367

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to the two sections should be written in **SEPARATE** answer books.
- 4) Assume suitable data if necessary.

Q.1 Explain with respect to digital multimeter (10)
1) 4 ½ digit DMM 2) 6 ½ digit DMM

OR

Discuss the automatic ranging in DVM & explain the auto ranging techniques. (10)

Q.2 Write short note on AC/DC current probes. (10)

OR

Describe following points related to LCR-Q meter (10)
1. Principle 2. Different connections 3. Digital LCR-Q meter.

Q.3 What are the requirements of a pulse? How pulse are generated using a sweep generator. (10)

OR

How broad band sweep frequencies are generated using a sweep generator. (10)

Q.4 Describe dual trace CRO with the help of block diagram. (10)

OR

Discuss the operation of DSO with the help of block diagram. (10)

Q.5 What are different EMI/EMC standards? (10)

OR

Describe S- parameter measurements using network analyzer. (10)

Q.6 What is logic analyzer? Describe one of its applications. (10)

OR

Discuss basic wave analyzer. Compare frequency selective & heterodyne wave analyzer. (10)

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