

B.Tech. SEM -IV Bio Medical 2014 Course (CBCS) : SUMMER - 2019
SUBJECT- ELECTRONIC INSTRUMENT & MEASUREMENT SYSTEM

Day: Tuesday
Date: 28/05/2019

S-2019-2632

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** Answer book.
- 4) Assume suitable data if necessary.

- Q.1** a) State the three types of systematic errors. Give examples of each. (05)
b) What are advantages of digital instruments over analog instruments? (05)

OR

Discuss the automatic ranging in DVM with its block diagram. (10)

- Q.2** Draw block diagram of vector impedance meter. Describe the function of each block in detail. (10)

OR

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

- Q.3** What are the specifications of universal counter? How universal counter be used to measure frequency & period. (10)

OR

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

- Q.4** Explain in detail with neat diagram the features of IEEE 488 bus. (10)

OR

Describe curve tracer (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

Describe Basic wave analyzer. (10)