B.Tech. SEM -V Electronics Engg.) 2014 Course (CBCS) : SUMMER - 2019

SUBJECT- ELECTRONIC INSTRUMENT & MEASUREMENT SYSTEM

Day: Saturday | S-2019-2673 | Time: 10.00 AM TO 01.00 PM
Date: 11/05/2019 | 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 SAME answer books.
4) Assume suitable data if necessary.

Q.1 What are the advantages of digital instruments over analog instruments. **(10)**

OR

Draw block diagram of digital multimeter & describe how current voltage & resistance is measured on DMM. **(10)**

Q.2 Draw block diagram of true RMS meter & discuss its working in details. **(10)**

OR

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

Q.3 Briefly explain frequency & period measurement of universal frequency counter. **(10)**

OR

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

Q.4 Discuss the operation of DSO with the help of block diagram. **(10)**

OR

Describe curve tracer **(10)**

Q.5 Compare scalar network analyzer & vector network analyzer. **(10)**

OR

Describe the SINAD test with its set up diagram. **(10)**

Q.6 Discuss harmonic analyzer based on fundamental frequency suppression. **(10)**

OR

Describe heterodyne wave analyzer. **(10)**

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