

B.E. Sixth Semester (Electronics & Telecommu., Electronics Engg.) (CGS)
10619 : Elective-II : Electronics Test Instruments
Analog and Digital Integrated Circuits : 6 FEXT 05 / 6 FEXN 05

P. Pages : 2

Time : Three Hours



AU - 2779

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **three** question from Section A and **three** question from Section B.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain analog and digital meter. 6
b) Discuss the functions of ohmmeter. 7

OR

2. a) How AC voltmeter acts as average Responding meter, peak reading meter and True-RMS meter? 6
b) Explain following terms: 7
i) Diode Test ii) Continuity indicator
iii) Capacitance measurement iv) Meter range

3. a) Explain Burst mode of Arbitrary waveform generator. 6
b) Explain pulse generator with waveforms. 7

OR

4. a) Explain following terms: 7
i) Frequency accuracy ii) Amplitude Accuracy
iii) Spurious Response iv) Close in sidebands
b) Explain function generator with block diagram. 6
5. a) Explain the digital oscilloscope in detail. 7
b) Explain X-Y mode of oscilloscope and it's applications. 7

OR

6. a) Explain the following techniques used for digital reconstruction of signal. 8
i) Sample ii) Real time sampling
b) Explain digital acquisition and display system. 6

SECTION - B

7. a) Explain phase measurement using time base method. 7
b) Explain frequency measurement using two counter method. 6

OR

8. a) Discuss digital signal measurement technique. 7
b) Explain voltage gain measurement of a circuit. 6
9. a) Explain working and application of Network Analyzer. 7
b) Explain narrowband and broadband measurement technique. 7

OR

10. a) Explain distortion analyzer in detail. 8
b) Explain RF power measurement technique. 6
11. a) Discuss logic analyzer & it's applications. 7
b) Explain the following concepts. 6
i) Glitch Detect ii) State Analyzer

OR

12. a) Discuss logic probes with specifications and indicators. 6
b) Explain timing analyzer. 7
