

102

JAYA GROUP OF INSTITUTIONS
6th Sem-B.E/B.Tech
INTERNAL ASSESMENT -II(MODEL EXAMINATION 2)

Sub.Name: Measurement and instrumentation
Sub.Code: EC2351
Duration : 180 Minutes

Date: 7.3.15
Branch: ECE
Max.: 100 Marks

Answer all the Questions
PART A - (10 x 2 = 20)

- 1 What is a function generator?
- 2 What is wave analyzer?
- 3 What is spectrum analyzer?
- 4 Define settling time.
- 5 What is harmonic distortion?
- 6 Define virtual instrument.
- 7 Mention any two difference between digital and analog instrument.
- 8 What is meant by automatic zeroing?
- 9 State different type of digital voltmeter.
- 10 What are the basic operation in frequency counter?

PART B – (5X16=80)

- 11 (a) what is function generator? What are its basic elements and explain its working with block diagram

Or

- (b) Explain about indirect and direct frequency synthesizer in detail.

- 12 (a) Explain about wave analyzer in detail with neat sketch.

Or

- (b) Discuss the principle of pulse and square wave generator and also pulse characteristics required to analyse the quality of pulse.

- 13 (a) Explain the following terms:
(i) Digital L,C,R Meter
(ii) Digital RLC Meter

Or

- (b) What is meant by virtual instrument and explain it in detail with neat sketch.

- 14 (a) Explain with the neat diagram of computer controlled test system.

Or

- (b) Draw and explain the circuit of frequency counter.

- 15 (a) Explain any three type of digital voltmeter with neat sketch in detail.

Or

- (b) Explain about automation in digital instruments in detail with relevant diagrams