

Code: 9A02704



B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017 INSTRUMENTATION

(Electrical & Electronics Engineering)

Time: 3 hours

1

Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

(a) List the static characteristics of measuring systems.

- (b) How do you perform statistical analysis of random errors?
- 2 (a) Find whether the signal given by x(n) = 5 Cos (6n) is periodic.
 - (b) Define unit step, ramp and delta functions for CT.
- 3 (a) Bring out the differences between frequency modulation system (FM) and pulse modulation (PM).
 - (b) Explain the salient features of land line with feedback system.
- 4 (a) Explain the process of time division multiplexing.(b) How do you perform digital recording using analog recorder?
- 5 (a) With a neat figure, explain the working of a frequency selective analyzers.
 - (b) List the applications of vector impedance meter and give its functionality.
- 6 (a) Explain the working of LVDT and list its applications.
 - (b) What is the principle of thermocouple and explain its function.
- 7 How do you measure velocity and angular velocity? Explain in detail.
- 8 Write explanatory notes on:
 - (a) Modern digital DAS.
 - (b) Measurement of liquid level.