



Dnyaneshwar Vidyapeeth (Trust)

CENTRAL EXAMINATION BOARD

ASSIGNMENT OF INSTRUMENTATION & PROCESS CONTROL

SUB -CODE- (ELX-G800T)
ASSIGNMENT NO. 1

COURSE: ADVANCED TECH-QUIC PROGRAM
(Assignment Based on Topic No.1, 2)

SESSION - WINTER
BRANCH - E & TC

Q.1 Answer the following (Questions for 2 Marks):

- 1) Define Instrumentation.
- 2) Define open loop control system.
- 3) Define Linearity.
- 4) Explain sensitivity and resolution.
- 5) Explain hysteresis
- 6) Explain reproducibility.
- 7) Define range
- 8) Explain backlash.
- 9) What is drift?

Q.2 Answer the following (Questions for 4 Marks):

- 1) Compare analog and digital instruments.
- 2) Explain why digital instruments are preferred over analog instruments?
- 3) What is the difference between accuracy and precision?
- 4) Explain Static and Dynamic characteristics of instruments.
- 5) Explain arithmetic mean and standard deviation.

Q.3 Answer the following (Questions for 8 Marks):

- 1) What are deflection and null type instruments?
- 2) Write a short note on selection of instruments.
- 3) What are static performance parameters of instruments?
- 4) Define threshold and limiting error.
- 5) Explain systematic error.

GROWTH UNTO INFINITE