(ME5002) (MECHANICAL MEASUREMENT & CONTROL)

- 1. (a) What is measurement?
 - (b) What are the General measurement systems?
 - (c) Differentiate between replication and repetition?
 - (d) What is dynamic calibration?
 - (e) Explain the response of a first-order system when subjected to step input signal?
- 2. (a) What is static calibration?
 - (b) What is replication?
 - (c) Define accuracy & precision?
 - (d) Define briefly semi-log?
 - (e)" If an engineer were to be deprived of all the measuring devices, he would be reduced to guessing and speculating". Comment on the validity of this statement?
- 3.(a) What is phase linearity?
 - (b)What are sequential and random tests?
 - (c) Differentiate between semi-log, full-log?
 - (d) Explain briefly phase linearity?
 - (e) How we find out determination of time?
- 4. (a) Explain zero order, first order, and second order system ?
 - (b) What is bias errors?
 - (c) What are Measurement errors?
 - (d) Define data acquisition, data reduction?
 - (e) Explain least square regression analysis