Q.1 Explain the scope of metrology?
Q.2 Differentiate between systematic errors and random errors.
Q.3 Draw diagram of vernier caliper?
Q.4 Draw only diagram of how you are measure parallelism of two axes?
Q.5 What is wavelength standard? State advantages of wavelength standard
Q.6 State the principle of vernier. Explain construction of vernier caliper ?
Q.7 State the principle of micrometer. Explain construction of micrometer?

Assignment No: II

Q.1 Differentiate between Systematic error & Random error?
Q.2 Differentiate between Tolerance & Allowance?
Q.3 Describe with neat sketch construction and working of an instrument used for measurement of surface texture?
Q.4 Define the term quality?
Q.5 What do you understand by Limit, Fit, Tolerance & Allowance?
Q.6 What is tolerance? Explain unilateral and bilateral system of tolerance?
Q.7 Differentiate between hole basis & shaft basis system?
Assignment No: III

(Write any five)

Q.1 Define the term "Quality control" and state its objectives.

Q.2 Describe any one method of checking major diameter of an external straight thread?

Q.3 Describe any one method of checking minor diameter of an external straight thread?

Q.4 What is the meaning of quality of conformance? State the requirements for good quality of conformance.

Q.5 What are limit gauges? Sketch any two types of limit gauges?

Q.6 Write note on slip gauges? Explain wringing of slip gauge?

Q.7 A 300mm Sine bar is to be set up to an angle of 32°. Determine the slip gauges needed from 87 pieces set.