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Register No.:	

November 2022

Time - Three hours (Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A each question carries 3 marks.
 - 2. Answer all the questions either (A) or (B) in Part-B each question carries 14 marks.]

PART - A

- 1. Write short notes on system of units.
- 2. Define calibration and reliability.
- 3. Define steel rule.
- 4. What are the limitations of sine bar?
- 5. Define helix angle of screw thread.
- 6. Classify the geometrical irregularities.
- 7. What are the advantages of laser based measurement?
- 8. What is computer based inspection?
- 9. List out the direct methods used to measure the force.

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10. What is dynamometer? Give its classification.

PART - B

11. (a) Explain the various types of errors.

(Or)

- (b) Explain the procedure for selecting the measuring instruments.
- 12. (a) Explain the construction and working principle of vernier height gauge with neat sketch.

(Or)

- (b) Explain the working principle of autocollimator with neat sketch.
- 13. (a) Explain the measurement of minor diameter of external screw thread using bench micrometer with suitable sketch.

(Or)

- (b) Explain the method of measuring tooth thickness of gear using David brown tangent comparator.
- 14. (a) Explain the two frequency laser interferometer with a neat sketch.

(Or)

- (b) Explain the trigger type probe system with a neat sketch.
- 15. (a) Explain unequal arm balance method of force measurement system with a neat sketch.

(Or)

(b) Explain construction and working of laser Doppler anemometer with a neat sketch.
