Register No.:	

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Explain the important \$202 radotoOneosurements with block

<u>Time - Three hours</u> (Maximum Marks: 100)

- Answer all questions under Part-A. Each question carries
 marks.
 - 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

12. (a) Explain the construction and working principle of inside

micrometer with a neat s A - TRAP

- 1. Classify measuring instruments.
- Draw the following metrological symbols.
 (i) Parallelism (ii) Run out (iii) Circularity
- 3. What is the use of micrometer?
- 4. What are the differences between electrical and mechanical comparators?
- 5. List out the methods for measuring major and minor diameter of screw thread.
- 6. Write short notes on double microscope. (a)
- 7. What is interferometry? Write the uses of laser in interferometry.
- 8. List out the application of CMM. This will be segretaring and application of CMM.
- 9. State the working of load cells.
- 10. Write the short notes on diaphragm gauge with strain gauge.

Explain hot wire anemometer with a neat sketch. List out its

[Turn over.....

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PART - B

11. (a) Explain the important elements of measurements with block diagram.

(Or)

- (b) Explain precision and accuracy with a neat sketch.
- 12. (a) Explain the construction and working principle of inside micrometer with a neat sketch.

(Or)

- (b) Explain optical bevel protractor with a neat sketch.
- 13. (a) Explain the construction and working of tracer type profilogram with a neat sketch.

(Or)

- (b) Explain the working of screw gauge.
- 14. (a) Explain construction and working principle of Laser Telemetric system with a neat sketch.

What is interferometry? Write the u(10) of laser in interferometry

- (b) Explain the types of CMM with neat sketches.
- (a) Explain Hydraulic load type force measurement system with a neat sketch.

(Or)

(b) Explain hot wire anemometer with a neat sketch. List out its advantages.