**UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA**

Department of Industrial Engineering **& of**

**MID TERM PAPER**

**OBJECTIVE**

**Course Name:** Metrology & Statistical Quality Control **Course Code:** IE 312

**Semester:** 5th (Entry 2011) **Course Instructor:** Engr. Zaheer Ahmad

Name: Time Allowed: 20 minutes

Roll #: Marks: 20

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**MULTIPLE CHOICES: Circle the letter before the correct answer.**

**1-** Suppose 10 measurements are performed, \_\_\_\_\_\_\_\_\_\_\_\_\_ means how well all measurements

 are nearer to each other and how well they agree with each other.

 (a) Accuracy (b) Precision (c) Calibration (d) Measurement.

**2-**Out of all the standards of length, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the easiest of all to use.

1. Line (b) End (c) Wavelength (d) Angle.

**3-**Accuracy of instrument is maintained by proper and regular \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Measurement (b) storage (c) Calibration (d) it’s less use.

**4-**For measuring internal diameter, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be used.

1. Vernier Caliper (b) Outside micrometer (c) Vernier Micrometer

**5-**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the difference between true value and measured value.

1. Precision (b) Repeatability (c) Error

**6-**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a precision instrument.

1. Angle Plate (b) Surface Plate (c) Micrometer (d) Straight Edge

**7-**Which of the following is the most accurate standard of length available in workshop.

1. Vernier caliper (b) Micrometer (c) Slip gauges (d) Steel Ruler

**8-**Velocity of Laser Interferometer is mostly

1. 18000m/min (b) 19000m/min (c) 21000m/min (d) 16000m/min

**9-**Which of the following is not an end standard?

1. Slip gauges (b) End bars (c) Rulers and scales (d) Gauge Blocks.

**10-**Every measurement

(a)Requires recording

(b)Is subject to errors

(c)Must be factual

(d)Should be made to the instrument least count