**UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA**

Department of Industrial Engineering **& of**

**Final TERM PAPER**

**SUBJECTIVE**

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

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

Time Allowed: 2:30 hrs Marks: 30

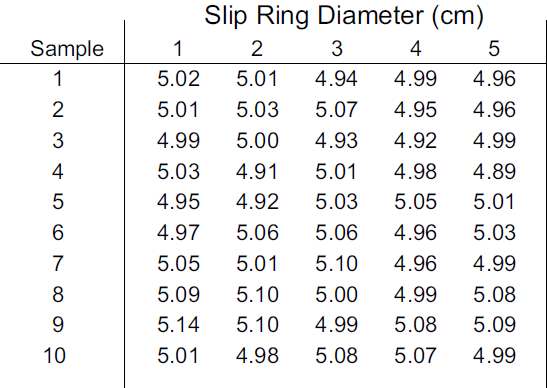
**All Questions carry equal marks (Each Question=6)**

**Question No. 2**

* Explain the Procedure for the construction of a C-Chart?
* What are the Objectives of Variable Control Charts?

**Question No. 3**

Control charts for X-Bar and R are to be established on a certain dimensions of Slip Ring Diameter (cm). Data are collected in subgroup size of 5 and are given below. Determine trial central line and control limits also revise the central line and limits?

****

**Question No. 4**

Determine the equation for the OC Curve for the sampling plan N=6000, n1=80, c1=2, r1=4, n2=160, c2=5, r2=6. Construct the curve using about 3 Points.

**Question No. 5**

Define the following with the examples?

Precision, Accuracy, Bar Graph, Polygon of Data, Ogive

**Question No. 6**

* Write a Comparison between Control Charts of Variables vs. Control Charts of Attributes?
* Write Pros & Cons of the Acceptance Sampling?