# MAHATMA GANDHI MISSION’S COLLEGE OF ENGINEERING & TECHNOLOGY

A-09, SECTOR-62, GAUTAM BUDHA NAGAR, NOIDA (U.P.)

DEPARTMENT OF CSE,ME,CE,ECE

**Subject- Industrial Management Subject code –RAS-601 Question Bank No.4 TOPICS -UNIT 4**

# Q1. Each question contain 2 marks .For assignment attempt any Five.

1. Give some detail of sequential sampling plan?
2. What is meant by statistical quality control?
3. What is a control chart?
4. What do you mean by sampling and sampling plan?
5. State the purpose and advantages of control chart.
6. Give the fundamental basis of statistical quality control.
7. What is the difference between Quality and Total Quality Management?
8. Define Quality and Quality Control.
9. What do you understand by Acceptance Sampling?

# Q2. Each question contain 5 marks .For assignment attempt any Five.

* + 1. Give the common reasons for the failure of TQM programs.
    2. Write short notes on the following:-
* TQM
* Six Sigma
* Benchmarking
  + 1. What is Process Control? What are the steps to improve Quality?
    2. Give the objectives of X and R charts.
    3. What is inspection? Explain the different types of inspection.
    4. Give some detail of ISO certification norms.
    5. Give a difference between attribute and variable control chart.
    6. Discuss the objectives and advantages of Quality Control.
    7. Explain the factors that affect Quality.
    8. Following observations were made from the stapples of 5 each:-

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample no | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| X | 7 | 7.5 | 8 | 10 | 9.5 | 11 | 11.5 | 4 | 3.5 | 4 |
| R | 2 | 3 | 2 | 2 | 3 | 4 | 3 | 2 | 1.3 | 2 |

Determine:-

1. UCL,LCL for X-Chart and R-chart.
2. Draw the chart.

Given for n=5,A2=0.58,D3=0,D4=2.11

# Q3. Each question contain 10 marks .For assignment attempt any Two.

1. What is double sampling plan? Describe the double sampling plan procedure.
2. Discuss multiple sampling plans. Describe the procedure.
3. Give the construction of X Control Charts in detail.
4. Give the construction of R Control Charts in detail.
5. Describe P and C Control chart in detail.
6. The total number of defects in 30 large size samples at a work station was 480. Apply the position distribution to determine the central line and the upper and lower control limits for the number of defects in the sample.

**Name of Faculty: Mrs. Zia Zehra Zaidi Sign of HOD:**