

# Ajay Kumar Garg Engineering College, Ghaziabad

## Department of TIFAC - CORE

### Sessional Test-2

Course: B. Tech.  
 Session: 2017-18  
 Subject: Quality Management  
 Max Marks: 50

Semester: 7<sup>th</sup>  
 Section: EN-1, EN-2  
 Sub. Code: NOE-072  
 Time: 2 hour

Note: Answer all the sections.

#### Section-A

A. Attempt all the parts.

(5x2=10)

1. What are UCL and LCL?
2. What do you understand by quality costs.
3. What are control charts for variables and attributes?
4. What are different types of organizational structures?
5. What is quality of conformance?

#### Section-B

B. Attempt all the parts.

(5x5=25)

6. Explain quality functions.
7. Briefly describe about control chart for percent defectives.
8. Explain different types of quality costs.
9. How does quality management affected by human factors?
10. Discuss specific benefits and applications of control charts.

#### Section-C

C. Attempt all the parts.

(2x7.5=15)

11. Discuss various factors influencing the designing of the quality organization structure and human factors in quality control of a product.
12. Calculate the limits and draw X chart for the following data.

Sample	X1	X2	X3	X4	X5	X6
1	3	4	5	5	5	6
2	3	4	5	6	7	7
3	6	6	7	7	7	8
4	6	7	8	8	8	10
5	7	7	8	9	10	12
6	6	8	8	8	8	10
7	8	9	10	11	12	14
8	7	9	9	10	11	13
9	11	12	13	13	14	14
10	13	14	14	15	16	17

Use  $D_4 = 2.004$ ,  $D_3 = 0$ ,  $d_2 = 2.534$  for 10 no. of samples.