***Vidya College of Engineering***

**NHU-601 INDUSTRIAL MANAGEMENT**

**QUESTION BANK**

**UNIT-4**

1. What is meant by Quality Control? Briefly explain its importance & Methods of Quality Control.
2. What do you mean by quality control? Explain the factors that affect quality. Also discuss its area of application.
3. What is **Statistical Quality Control?** What are the varioustechniques of **Statistical Quality Control?(2012-13)**
4. What are the objectives of I**nspections**?
5. Define **Total Quality Management** & describe its elements.
6. Explain the steps in the implementation of Total Quality Management.
7. What are **Control Charts**? State the purpose and advantages of control charts. **(2012-13)**
8. What do you mean by central line, upper control limit and lower control limit? Also discuss R-chart. **(2012-13)**
9. What are **ISO: 9000 Standards**?
10. What is **Six Sigma**?
11. Draw C chart from the following data:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.N | No. of defects | S.N | No. of defects | S.N | No. of defects |
| 1 | 13 | 8 | 0 | 15 | 1 |
| 2 | 9 | 9 | 2 |
| 3 | 19 | 10 | 5 |
| 4 | 7 | 11 | 7 |
| 5 | 8 | 12 | 11 |
| 6 | 10 | 13 | 9 |
| 7 | 12 | 14 | 13 |

1. Mean values & ranges of data from 20 samples(sample size=4) are shown in the table below (A2= 0.729, D3= 2.282, D4= 0). Prepare mean & range charts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.N | Mean | Range | S.N | Mean | Range |
| 1. | 10 | 4 | 11 | 12 | 5 |
| 2 | 15 | 4 | 12 | 13 | 4 |
| 3 | 12 | 5 | 13 | 12 | 4 |
| 4 | 11 | 4 | 14 | 12 | 3 |
| 5 | 9 | 5 | 15 | 11 | 3 |
| 6 | 11 | 6 | 16 | 15 | 4 |
| 7 | 11 | 4 | 17 | 12 | 4 |
| 8 | 9 | 4 | 18 | 15 | 3 |
| 9 | 10 | 4 | 19 | 11 | 3 |
| 10 | 11 | 6 | 20 | 10 | 4 |