

## TMP

- 1) Explain SQC.
- 2) Uses of SQC.
- 3) Define control chart & how do you construct mean and range chart.
- 4) How do you construct a standard deviation chart.
- 5) Distinguish b/w control chart for variables & control charts for attributes.
- 6) How do you construct fractional defectives chart.
- 7) How do you construct no. of defectives chart.
- 8) How do you construct c-chart & u-chart & what are the applications of c-chart.
- 9) Explain the concept of 6 $\sigma$  limits & give its importance.
- 10) Give the importance of SQC in industries.
- 1) Explain the causes of Variations.
- 2) Define tolerance limits, specification limits and process capability analysis.

## Unit - III

### Important Questions.

- 1) Explain Acceptance Sampling plan or product Control?
- 2) Explain 100% Inspection?
- 3) Explain Rectifying Inspection plans
- 4) Define :  
(i) AOQ (ii) LTPD (iii) ASN  
(iv) ATI (v) producer risk  
(vi) consumer risk (v) AOQL
- 5) Explain Single Sampling plan
- 6) Explain Double Sampling plan
- 7) Define :
  - a) Failure density
  - b) Hazard Rate
  - c) Reliability
  - d) probability of failure
  - (e) MTTF
  - (f) MTBF.

- 8) Derive Exponential distribution as a Life model?
- 9) Explain the Lack of memory property of ED?
- 10) Explain System Reliability?



B.Sc - III / IV Sem - SG - Imp Questions.

Unit - I

1. Define SQC. Write the importance of SQC in Industry.
2. Explain the basis for control charts.
3. Explain  $\bar{x}$  & R charts.
4. Define SQC. How do you construct a S.D chart.
5. What are control charts for attributes? Explain purpose and method of construction of np-chart.
6. Explain fraction defectives chart for fixed and variable sample size.

Unit - II

1. How do you construct c-chart and what are applications of c-chart.
2. Explain u-chart.
3. Define a. Tolerance limits b. Specification limits
4. Explain about process capability Ratio.

Unit - III

1. Explain Acceptance Sampling plans. Write its advantages and disadvantages.
2. Define 1. AQL 2. LPPD 3. Consumer's Risk 4. Producer's Risk
3. Explain SSP and write its OC-curve.
4. Explain DSP and write its OC-curve.
5. Define:  
1. Failure Density  
2. Probability of Failure  
3. Hazard Rate  
4. Reliability  
5. MTTF  
6. MTBF

6. Explain Exponential Distribution as a failure Distribution of life model.
7. Explain Lack of memoryless property of Exponential dist'n.
8. Explain the concept of System Reliability
9. Explain k-out of n-system structure of a system with example.
10. Find the Reliability of the ~~system~~ following configuration.

