

Register No.: 

147

October 2023

Time – Three hours  
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART – A**

1. List out the types of production.
2. List out the factors influencing choice of machinery.
3. Write the potential benefits of TQM.
4. Define the term quality.
5. List the purpose of arrow diagram.
6. What is meant by stratification analysis?
7. List the types of data.
8. Write 3 sigma limit for P-chart.
9. What is the objective of 5S?
10. What is meant by value stream mapping?

PART - B

11. (a) Enumerate the factors that influence process planning.  
(Or)  
(b) How would you select jigs and fixtures for the process? Explain.
12. (a) Explain the basic concepts of TQM.  
(Or)  
(b) Describe about PDCA cycle for continuous improvement.
13. (a) Discuss tree diagram and affinity diagram with neat sketches.  
(Or)  
(b) Explain the following diagrams for quality improvement.  
(i) Histogram (ii) Cause and effect diagram
14. (a) Explain the steps in constructing X bar and R chart.  
(Or)  
(b) Explain the classification of data and tabular presentation of data.
15. (a) Elaborate how TPM is implemented in an organisation.  
(Or)  
(b) Elaborate about overall equipment effectiveness.

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