

Register No.:

818

April 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 the factors affecting process selection.
2. Write the principle of line balancing.
3. What is brain storming?
4. State the elements of TOM.
5. State the objectives of quality circle.
6. When do you use tree diagram?
7. What are the measures of dispersion?
8. What is six sigma?
9. What are the benefits of 5S?
10. List the types of Benchmarking.

PART – B

11. (a) Describe automated process planning with the help of neat sketch.

(Or)

- (b) Describe the following in process selection.
(i) Technological choice (ii) Specific component choice
(ii) Process flow choice.

[Turn over.....

12 (a) Describe the Deming's 14 points Philosophy on route to quality.

(Or)

(b) Describe strategic planning.

13. (a) Explain the structure of a Quality circle.

(Or)

(b) Explain briefly: (i) Affinity diagram (ii) Matrix diagram (iii) Matrix data analysis.

14. (a) The following are the scores of two batsman Sachin and Dravid in a series of innings.

Sachin	12	115	6	73	7	19	119	36	84	29
Dravid	47	12	16	42	4	51	37	48	13	0

Who is better scorer and who is more consistent?

(Or)

(b) Five thermostatic controls are tested to determine the ON temperature. The measured values are 344°, 338°, 342°, 335° and 336°. These values constitute the first subgroup for control chart. Compute the mean, median, range, standard deviation and variance of this sub group.

15. (a) Explain about six sigma process for existing process improvement.

(Or)

(b) Explain about total productive maintenance(TPM).
