

**April 2019***Time – Three hours  
Maximum Marks: 75)*

*[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.  
Answer any FOUR questions from the remaining in each PART – A  
and PART – B*

*(2) Answer division (a) or division (b) of each question in PART – C.*

*(3) Each question carries 2 marks in PART – A, 3 marks in Part – B  
and 10 marks in PART – C.]*

**PART – A**

1. What is meant by accident proneness?
2. What is operation process chart?
3. Define allowances.
4. What is PPC?
5. Define first piece inspection.
6. Define motivation.
7. What is management?
8. Define prime cost.

**PART – B**

9. Name any three factors to be considered for selection of site for a plant.
10. Explain collective bargaining.
11. Define productivity and standard of living.
12. Describe route sheet.
13. Explain the different types of capital.
14. What is apprentice training?
15. Explain re-order level.
16. Write a note on centralised inspection.

PART – C

17. (a) What are the different types of plant layout? Explain.  
(Or)  
(b) What are the types of maintenance? Explain.
18. (a) Explain in detail the steps involved in time study.  
(Or)  
(b) With a block diagram, explain how the standard time for a job is determined.
19. (a) Explain major functions of PPC.  
(Or)  
(b) Explain the construction of  $\bar{X}$  and R chart.
20. (a) State and explain the principles of management by F.W. Taylor.  
(Or)  
(b) Explain any two types of leadership style in detail.
21. (a) Explain by means of block diagram how the selling price of a product is determined.  
(Or)  
(b) Explain the different methods of calculating depreciation.

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