Reg. No. :

PART A - (10 x 1 = 10 Marks)

(Answer all Questions)

1. The correct sequence of operation in production planning and control is   CO1- R

   (a) Routing-Scheduling-Dispatching-Follow up

   (b) Scheduling-Routing-Dispatching-Follow up

   (c) Dispatching-Routing-Scheduling-Follow up

   (d) Routing-Scheduling-Follow up-Dispatching

2. Mass production is characterized by   CO1- R

   (a) Low volume high variety   (b) High volume low variety

   (c) High volume low variety   (d) Low volume low variety

3. Work study examines   CO2- R

   (a) Method   (b) Duration of work   (c) Both (a) and(b)   (d) None of the above

4. Work study consists of   CO2- R

   (a) Effective use of plant and equipment   (b) Effective use of human effort

   (c) Evaluation of human work   (d) All of the above

5. Value analysis examines the   CO3- R

   (a) Design of every components   (b) Method of manufacturing

   (c) Material used   (d) All of the above

6. The cost reduction technique in comparision to the worth of a product is known as   CO3- R

    (a) Reverse engineering   (b) Value engineering

    (c) Material engineering   (d) Quality engineering

7. Gantt Chart is mostly used for   CO4- R

    (a) Routing   (b) Scheduling

    (c) Follow up   (d) Inspection and quality control

8. The bill of material does not consists of   CO4- R

    (a) Part number   (b) Specifications of part

    (c) Name of the part   (d) Price of the part

9. Which of the following is true for Inventory control?   CO5- R

    (a) Economic order quantity has minimum total cost per order

    (b) Inventory carrying costs increases with quantity per order

    (c) Ordering cost decreases with lo size

    (d) All of the above

10. The cost of insurance and taxes are included in   CO5- R

    (a) Cost of ordering   (b) Set up cost   (c) Inventory carrying cost   (d) Cost of shortages

PART – B (5 x 2= 10Marks)

11. What is Break-Even Analysis?   CO1- R

12. Define method study.   CO2- R

13. Define the term Product Planning.   CO3- R

14. What is MPS?   CO4- R

15. When do you use ABC analysis?   CO5- R

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16. (a) Write short notes on   CO1-App   (16)

     (i) Routing

     (ii) Loading

     (iii) Scheduling

     (iv) Dispatching

     (v) Expediting

Or

(b) Explain different types of production systems. Differentiate between them.   CO1-App   (16)

17. (a) Briefly explain the various techniques of work measurement   CO2-App   (16)

Or

(b) Write a short notes on the following work measurement techniques   CO2-Ana   (16)
     (i) Work sampling
     (ii) Synthetic data and
     (iii) PMTS

18. (a) Explain the importance of process planning with reference to production control. Discuss the activities involved in process planning.   CO3- Ana   (16)

Or

(b) Explain the various phases of value engineering.   CO3- Ana   (16)

19. (a) Explain how Johnson's rule can be used for scheduling n jobs on three machines   CO4- U   (16)

Or

(b) Discuss the concept, inputs, characteristics, working, outputs, and benefits of Material Requirements Planning (MRP).   CO4- Ana   (16)

20. (a) Explain the methodology adopted in implementing ERP.   CO-5 U   (16)

Or

(b) Discuss the various basic elements of JIT that must be addressed for successful JIT implementation.   CO-5 U   (16)

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