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Question Paper Code: 49718

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Mechanical Engineering

14UME918-- PRODUCTION PLANNING AND CONTROL

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

(Answer all Questions)

1. Which of the following is not a part of Five M's? CO1- R
(a) Material (b) Machine (c) Motion (d) Method
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 bill of material does not consists of CO3- R
(a) Price of the part (b) Specifications of part
(c) Name of the part (d) Part number

7. Gantt Chart is mostly used for CO4- R
 (a) Routing (b) Scheduling
 (c) Follow up (d) Inspection and quality control
8. Centralized and decentralized are the types of CO4- R
 (a) Routing (b) Dispatching
 (c) Scheduling (d) Follow up
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. Key to chart is provided in CO5- R
 (a) Gantt chart (b) Man machine chart
 (c) The load chart (d) The progress chart

PART – B (5 x 2= 10Marks)

11. What are the types of production? CO1- R
12. Assumption in break even analysis? CO2- R
13. State the importance of work study. CO3- R
14. What are the benefits of production planning? CO4- R
15. Give any four symbols for method study. CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Discuss the main functions of Production Planning and Control in detail. CO1-App (16)
 Or
 (b) Explain different types of production systems. Differentiate between them. CO1-App (16)
17. (a) Explain the importance of work study. CO2-App (16)
 Or

- (b) Write a short notes on the following work measurement CO2-Ana (16)
 techniques
 (i) Work sampling
 (ii) Synthetic data and
 (iii) PMTS
18. (a) Discuss the functions of production planning cycle. CO3- Ana (16)
 Or
 (b) Explain the various phases of value engineering. CO3- Ana (16)
19. (a) Explain the details about master scheduling. Give an example. CO4- U (16)
 Or
 (b) Discuss the concept, inputs, characteristics, working, outputs, and CO4- Ana (16)
 benefits of Material Requirements Planning (MRP).
20. (a) Explain the methodology adopted in implementing ERP. CO-5 U (16)
 Or
 (b) Explain ABC analysis? Explain its significance in the inventory CO-5 U (16)
 control with suitable example

