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**Question Paper Code: 49718**

B.E./B.Tech. DEGREE EXAMINATION, SEP 2020  
Elective  
Mechanical Engineering  
14UME918-- PRODUCTION PLANNING AND CONTROL  
(Regulation 2014)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

**(Answer any six of the following questions)**

- Which of the following is not a part of Five M's? CO1- R  
(a) Material                      (b) Machine                      (c) Motion                      (d) Method
- 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
- Work study is also recognized as CO2- R  
(a) time study                      (b) motion study                      (c) Both (a) and (b)                      (d) None of the above
- 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
- The bill of material does not consist of CO3- R  
(a) Price of the part                      (b) Specifications of part  
(c) Name of the part                      (d) Part number
- The cost reduction technique in comparison to the worth of a product is known as CO3- R  
(a) Reverse engineering                      (b) Value engineering  
(c) Material engineering                      (d) Quality engineering
- Master schedule is prepared for CO4- R  
(a) Single product continuous production                      (b) Multi product batch production  
(c) Assembly product continuous production                      (d) Single product batch production

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 not an inventory CO5- R  
 (a) Machines (b) Raw material (c) Finished products (d) Consumable tools
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 (3 x 8= 24 Marks)

**(Answer any three of the following questions)**

11. Discuss the main functions of Production Planning and Control in detail. CO1- U (8)
12. Explain the importance of work study. CO2- U (8)
13. Explain the various phases of value engineering. CO3- U (8)
14. Explain the details about master scheduling. CO4- U (8)
15. Explain the methodology adopted in implementing ERP. CO-5 U (8)