

B.E. DEGREE EXAMINATIONS: APRIL/MAY 2012

Eighth Semester

MECHANICAL ENGINEERING

U07MEE13: Production Planning And Control

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. Unit cost of production is high in
A. Mass production B. Flow production C. Batch production D. Job production
2. The process of reducing the number of types of product within a definite range is known as
A. Standardization B. Simplification C. Specialization D. Diversification
3. In process chart the symbol ∇ represents
A. Storage B. Delay C. Inspection D. Transport
4. The co-ordinated activities of an operator's body members is graphically represented in
A. Operation process chart B. Flow process chart
C. SIMO chart D. Multiple activity chart
5. The order in which different jobs are being taken up in a machine or process is called
A. Scheduling B. Sequencing C. Routing D. Aggregate planning
6. Value analysis is an organized procedure for
A. Efficient identification of unnecessary cost
B. Estimation of unit cost of production of an existing product
C. Estimation of unit cost of production of new product
D. Balancing the production line or an assembly line
7. Production planning consist of
A. Pre planning and routing B. Scheduling and dispatching
C. Expediting D. Demand forecasting
8. Chart which is useful for Scheduling and control is
A. Kanban B. Gantt chart C. Flow process chart D. X and R chart

9. The two-bin system is concerned with
- | | |
|------------------------|----------------------|
| A. Ordering procedure | B. Forecasting sales |
| C. production planning | D. Master scheduling |
10. Sum of buffer stock and lead time consumption is equal to
- | | |
|----------------------------|----------------------------|
| A. Reorder point | B. Order quantity |
| C. Economic order quantity | D. Maximum inventory level |

PART B (10x2=20 Marks)

11. What is meant by dependability?
12. Write any four advantages of standardization.
13. Define work study.
14. What is the purpose of micromotion study?
15. Define the term "Process planning".
16. What are the factors to be considered in selection of equipment?
17. What is a Gantt chart?
18. Differentiate between loading and scheduling.
19. What is safety stock?
20. What are the advantages of ERP?

PART C (5x14=70 Marks)

21. a) What is meant by production? Explain job, batch and continuous production with Examples. Give the relative advantages and disadvantages of different types of production.

(OR)

- b) (i) Write a brief note on "Aesthetic aspects" (6)
- (ii) How is break even analysis applied to production aspect? Explain. (8)
22. a) State and explain in brief the steps involved in method study procedure.

(OR)

- b) (i) Describe the principle involved in work sampling studies. What are the merits and limitations of work sampling? (8)
- (ii) Write a brief note on predetermined motion time standards. (6)

24. a) (i) What is value analysis? What are its objectives? (7)
(ii) What is meant by routing? Write its various functions. (7)
- (OR)**
- b) (i) Explain the various steps involved in process planning. (9)
(ii) Define machine capacity. Explain how you will determine the number of machines required for a specified volume of production (5)
24. a) (i) What is scheduling? State the objectives of scheduling. (7)
(ii) What is dispatching? State the various activities of dispatching, in brief. (7)
- (OR)**
- b) (i) Explain the working of MRP system. (8)
(ii) Write a brief note on balancing. (6)
25. a) (i) What is meant by EOQ? Derive an expression for the same. (8)
(ii) Describe Two bin system. (6)
- (OR)**
- b) (i) Describe briefly the method of ABC analysis as applied to inventory control. (7)
(ii) Explain the concept of JIT. (7)
