

Register Number.....

B.E. DEGREE EXAMINATIONS: NOV/DEC 2012

Seventh Semester

MECHANICAL ENGINEERING

MEC121: Production Planning and Control

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 1 = 10 Marks)

1. Production planning is
 - a) pre production activity
 - b) post production activity
 - c) concurrent activity
 - d) series activity
2. Job shop production means
 - a) manufacturing of one or few quantity of products
 - b) manufacturing of many products
 - c) manufacturing of large quantity of products
 - d) designing of few of products
3. Dependability refers to ----- with which the product serves its intended function
 - a) serviceability
 - b) reliability
 - c) durability
 - d) accessibility
4. Aesthetic effect refers to
 - a) final shape and appearance
 - b) service life
 - c) durability
 - d) dependability
5. Simplification is _____ the variety of product manufactured
 - a) reducing
 - b) increasing
 - c) wasting
 - d) eliminating
6. Monotony is the limitation of
 - a) specialization
 - b) standardization
 - c) simplification
 - d) pricing
7. Aggregate planning is the process of planning the _____ _____ timing of output over the medium range
 - a) quantity and timing
 - b) quality and timing
 - c) quality and process
 - d) quantity and process

b) Control Rate Planning

8. CRP stands for
- a) Capacity Requirements Planning
 - c) Consumables Request Planning
 - d) Commodity Range Planning
9. Two bin system is also referred as _____ system
- a) mini-max
 - b) micro-mini
 - c) macro-mini
 - d) max-mini
10. In a pull system
- a) Product is made to order
 - b) Product is made to stock
 - c) Product is made to scrap
 - d) Product is made to reform

PART B (10x2=20 Marks)

11. What is meant by Production Planning and control? State its objectives
12. List the benefits of motion study
13. What are the problems associated with lack of product planning?
14. Define 'Sequencing'
15. What are the elements of JIT systems?
16. State the significance of machine loading chart.
17. Write the forms of dispatching.
18. List down the methods for the progressing purpose.
19. Define 'Machine Capacity'
20. What are the functions of MRP II.

PART C (5x14=70 Marks)

21. a) Explain the types of Production systems with an example for each.

(OR)

- b) Describe Standardization and Specialization with suitable examples

22. a) (i) Describe the benefits of planning and control. (7)
- (ii) Explain 'Break even analysis'. How multi product breakeven point is established. (7)

(OR)

b) List the various methodologies involved in Method study? Explain in detail each one of them.

23. a) Describe the techniques of work measurement. How standard time is established for a process.

(OR)

b) (i) Explain various steps in process planning. (7)

(ii) Describe process capability analysis in a multi product service. (7)

24. a) (i) What is meant by product information in product planning? Explain. (7)

(ii) Explain the steps involved in value analysis with a suitable example. (7)

(OR)

b) Describe Gantt chart, state its advantages and disadvantages.

25. a) (i) Explain Flow production scheduling with neat sketches. (7)

(ii) Describe the impact of forecasting on operations and inventory. (7)

(OR)

b) (i) Explain ABC analysis and value distribution process. (7)

(ii) Explain the Impact of MRP on operations and inventory management. (7)
