Chettinad College of Engineering & Technology
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.

Department of Mechanical Engineering

IE8693 -PRODUCTION PLANNING AND CONTROL

Unit IV - PRODUCTION SCHEDULING MCQ Bank

1. Which of the following is not a part of Five M's?
a) Material
b) Machine
c) Motion
d) Method
(Ans:option c)

2. The correct sequence of operations in production planning and control is
a) Routing-Scheduling-Dispatching-Follow up
b) Scheduling-Routing- Dispatching-Follow up
c) Dispatching-Routing-Scheduling- Follow up
d) Routing-Scheduling-Follow up-Dispatching
(Ans: option a)

3. Which of the following is true for 'Routing'?
a) It is flow of work in the plant
b) Route sheets include list of machine tools that are to be followed
c) It depends upon material handling facilities
d) All of the above
(Ans: option d)

4. Loading may be defined as
a) Sending the raw material to the machine
b) Sending the finished material to the store
c) Assign the work to the facilities
d) Uploading a software in machine control panel
(Ans: option c)

5. Dispatching authorizes the start of production operations by

i. Release of material and components from stores to first process
ii. Release of material from process to process
iii. Issue of drawings instruction sheets
Which of the following is (are) true?
a) Only i
b) Only ii
c) i & ii
d) i , ii & iii
(Ans: option d)

6. The bill of material does not consists of
a) Part number
b) Specifications of part
c) Name of the part
d) Price of the part
(Ans: option d)

7. Procurement cycle time is time consumed for
a) Receiving of raw material
b) Inspection of various raw materials
c) Inspection of purchased components parts
d) All of the above
(Ans: option d)

8. The transit time consist of
a) Time taken by raw material from machine to machine
b) Time consumed in moving the work between various departments
c) Time taken by a worker to machine a component
d) None of the above

(Ans: option b)
9. Master schedule is prepared for
a) Single product continuous production
b) Multi product batch production
c) Assembly product continuous production
d) Single product batch production
(Ans: option c)

10. Which of the following chart is drawn Machine vs time?
a) Man machine chart
b) The load chart
c) The progress chart
d) Curve chart
(Ans: option b)

11. Gantt chart is mostly used for
a) Routing
b) Scheduling
c) Follow up
d) Inspection and quality control
(Ans: option b)

12. Key to chart is provided in
a) Man machine chart
b) The load chart
c) The progress chart
d) Gantt chart
(Ans: option d)

13. Centralized and decentralized are the types of
a) Routing
b) Dispatching
c) Scheduling
d) Follow up
(Ans: option b)

14. A number of manufacturing systems have been developed to improve the planning and control of operational capacity. Operations management systems is classified into:
a) Material requirements planning (MRP) and manufacturing resource planning II (MRPII)
b) Enterprise resource planning (ERP)
c) Optimized production technology (OPT)
d) All of the above
(Ans: option d)

15. Materials requirements planning or MRP I is a computer system for scheduling production in a complex manufacturing environment where:

a) Many raw materials and components are purchased from external suppliers
b) The raw materials and components are used to manufacture subassemblies
c) The sub-assemblies are assembled, possibly with other components and sub-assemblies purchased from external suppliers, into a finished product.
d) All of the above
(Ans: option d)

16. Material requirements planning (MRP) is a computerized system for planning the requirements for:
a) Raw materials
b) Work in progress
c) Finished goods
d) All of the above
(Ans : option d)

17. Functions of Material requirements planning (MRP) include**:**
a) Identifying firm orders and forecasting future orders with confidence.
b) Using orders to determine quantities of material required.
c) Determining the timing of material requirement and calculating purchase orders based on stock levels and Automatically placing purchase orders
d) Scheduling materials for future production
e) All of the above
(Ans: option e)

18. Benefits of Material requirements planning (MRP) include:

a) Improved ability to meet orders
b) Reducing stock holding
c) The MRP schedule can be amended quickly if demand estimates change since the system is computerized.
d) System can warn of purchasing or production problems due to bottlenecks or delays in the supply chain.
e) All of the above
(Ans: option e)

19. The purpose of an MRP I system is to plan purchasing and production scheduling exactly, so that:
a) all the raw materials and components are purchased and available in time to manufacture the sub-assemblies or finished products
b) the finished products are manufactured on time to a planned production schedule.
c) Both A&B
d) None
(Ans: option c)

20 . A bill of materials file is a database containing details of all the _____ required for the manufacture of each type of sub-assembly and finished product.
a) Components,
b) Parts and materials
c) Both A&B
d) None
(Ans: option c)

21. Which of the following is not the function of Produciton, Planning & Control(PPC)?

a) Routing
b) Scheduling
c) Integration of processes
d) Expediting and follow-up
(Ans: option c)

22. Which of the following is not a popular production system?

a) Continuous production
b) Job order production
c) Batch production
d) Project production
(Ans: option d)

23. Which of the following functions of the production planning and controlling is related to the time table of activities?

a) Routing
b) Scheduling
c) Dispatching
d) Expediting

(Ans: option b)

24. Which of the following is not the system of flexible manufacturing system

a) Fabrication
b) Drilling
c) Machining
d) Assembly
(Ans: option b)

25. Which of the following events increases the complexities of scheduling?

a) Use of single purpose machines
b) The infinity about the probable activities
c) The repetitive nature of the activities
d) The machine balancing between machines used in the processing
(Ans: option b)

26. Which of the following statements does not indicate the objectives of scheduling?

a) Optimum use of scarce economic resources
b) The Integration of all activities based on the time table
c) The time table of every activity in terms of start, finish and duration
d) To provide incentives to supervisors and formen
(Ans: option d)

27. The scheduling is not relatable important for which of the following activities?

a) Continuous production
b) Job order production
c) Assembling production
d) Transportation and logistics
(Ans: option a)

28. Which of the following formulas represents the measure of efficiency?

a) Objectives / Outputs
b) Outputs / Inputs
c) Demand Time / Production Time
d) Machine Hour / Men Hours

(Ans: option b)

29. Which of the following is a methods of scheduling?

a) Assets Turnover Ratio
b) Cash Turnover Ratio
c) **Critical Ratio**
d) Debt - Equity Ratio
(Ans: option c)

30. Which of the following measures of the critical ratio (CR) indicates the priorities to be given to the activities?

a) CR >1
b) CR = 1
c) CR < 1
d) None of the above
(Ans: option c)