

**BACHELOR OF BUSINESS ADMINISTRATION
FOURTH SEMESTER
ENTERPRISE RESOURCE PLANNING
BBA – 404**



[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

1. Material Requirement Planning (MRP) utilizes software applications for scheduling
 - a. Sales management
 - b. Production processes
 - c. Marketing techniques
 - d. Human resource management
2. A bill of materials lists the
 - a. times needed to perform all phases of production
 - b. production schedules for all products
 - c. components, ingredients, and materials required to produce an item
 - d. operations required to produce an item
3. A master production schedule specifies
 - a. the financial resources required for production
 - b. what component is to be made, and when
 - c. what product is to be made, and when
 - d. the labor hours required for production
4. "SAP" stands for
 - a. Systems Analysis and Program Development
 - b. Systematic Analysis and Programming
 - c. Synchronized Assessment Process
 - d. None of the above
5. Who is called the father of MRP-II?
 - a. Phillip Kotler
 - b. Charles Babbage
 - c. Oliver Wright
 - d. Oliver Wight
6. A material requirements plan contains information with regard to all of the following except
 - a. Quantities and required delivery dates of all sub-assemblies
 - b. Quantities and required delivery dates of final products
 - c. Capacity needed to provide the projected output rate
 - d. Inventory on hand for each final product
7. MRP II is accurately described as
 - a. MRP software designed for services
 - b. MRP with a new set of computer programs that execute on micro-computers

- c. MRP augmented by other resource variables
 - d. usually employed to isolate manufacturing operations from other aspects of an organization
8. The ordering cost of an inventory is INR 500 with an annual carrying cost of INR10 per unit. The Economic Batch Quantity for an annual demand of 2500 units is
 - a. 400
 - b. 600
 - c. 200
 - d. 500
 9. Which of the following is an input of material requirement planning?
 - a. Master Planning Schedule
 - b. Bills of Material
 - c. Work order
 - d. All of the Above
 10. According to Oliver Wight, in Class A organizations
 - a. Planning and control processes are effectively used company wide, from top to bottom.
 - b. Planning and control system is operated primarily as a better method for ordering materials
 - c. The operation processes are supported by top management and used by middle management to achieve measurable company improvements
 - d. Information provided by the planning and control system is inaccurate and poorly understood by users; providing little help in running the business
 11. The lead time is defined as:
 - a. The length of time before a stock out occurs
 - b. The length of time between ordering and receiving an inventory order
 - c. The length of time that it takes to order inventory
 - d. The time before production can be resumed
 12. Routing is
 - a. A model defines the daily work times, indicating the start and end of a shift, and the breaks during the shifts
 - b. The data structure maintaining and providing the data required for operating facilities and other workplaces
 - c. A list of operations performed or required for the manufacturing of a part.
 - d. None of the above
 13. What does MPS Focus on?
 - a. Work-in-progress
 - b. Finished goods
 - c. Raw material
 - d. Inventory management
 14. An enterprise is a group of people with _____.
 - a. Common goals
 - b. Only one goal
 - c. Separate goal for each department
 - d. Multiple goals
 15. ERP package will handle _____ business functionalities.
 - a. One
 - b. Two
 - c. Three
 - d. All
 16. Following is the basic module of ERP
 - a. Customer Relation
 - b. Manufacturing and Resource Planning
 - c. Distribution
 - d. Logistics

17. Which one of the following statement is incorrect with respect to MRP-II?
- It includes only manufacturing
 - It plans the requirement for resource
 - It is closed system
 - It boosts productivity.
18. Which one of the following features is not available in MRP?
- Demand forecasting
 - Equipment Maintenance Scheduling
 - Accounts and financial planning
 - All of the above
19. Which approach of ERP software selection provides a better understanding of the new processes and re-engineered business model?
- Request for Proposal (RFP) Approach
 - Proof of Concept (POC) Approach
 - Both a & b
 - None of the above
20. Which relationship is the correct one?
- Time consumed in RFP approach = Time consumed in the POC approach
 - Time consumed in RFP approach > Time consumed in the POC approach
 - Time consumed in RFP approach < Time consumed in the POC approach
 - None of the above

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(Descriptive)

Time : 2 Hr. 30 Mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. a) State the objectives behind implementing Material Resource Planning (MRP). 2+3+5=10
 b) What is the basic principle of MRP? Explain in brief.
 c) Discuss the significance of MRP in the manufacturing process.
2. a) What are the two important factors that affects the MRP and how? 5+5=10
 b) M/s Kobo Bearings Ltd, is committed to supply 24000 bearings for fans per annum on a steady daily basis. It is estimated that it cost 10 paisa as inventory holding cost per bearing per month and the set-up cost per run of bearing manufacturing is Rs 324. What should be the optimum run size for bearing manufacturing?
3. Requirements for the final product A are 1321 units, 1419 units and 1709 units for the 6th, 7th and 8th week respectively. Available quantity in hand is as follows: A: 1053 units, B: 299 units, C: 215 units and D: 343 units. The lead time for A, B, C and D are 1 week, 2 weeks, 2 weeks and 1 week respectively 10
- 1 unit of B and 1 unit of C are required for 1 unit of A.
 - 2 units of D is required for producing 1 unit of C
- Draw the product tree and prepare the MRP Table.
4. a) Define ERP. What are the benefits of implementing ERP in the recent times? 5+5=10
 b) Discuss the key factors responsible for the successful implementation of ERP.

5. a) Discuss the advantages and disadvantages of MRP-II 6+4=10
 b) Draw a comparison of between MRP-I and MRP-II
6. a) Illustrate the "Request for Proposal" (RFP) Approach for ERP package selection and highlight its limitation 7+3=10
 b) Draw a comparison between the "Request for Proposal" (RFP) approach and the "Proof of Concept" (POC) approach.
7. "Today, ERPs are fully customizable and can be used across a variety of departments" How do the industries from different sectors can benefit from the implementation of ERP in their business activities? Illustrates taking any two sectors as examples. 10
8. **A clear vision: Discover Financial Services moves to cloud ERP** 5+5=10
 In 2019, Discover Financial Services, the third-largest credit card brand in the United States, was running seven highly customized on-premises ERP systems. Their IT landscape was complex and lacked standardization, which resulted in slow and sometimes inaccurate reporting. Moreover, the accounting team and their counterparts in financial analysis and planning needed more scalable systems to support their growing workloads. After evaluating several vendors, Discover chose to simplify its environment by consolidating systems on Oracle Fusion Cloud ERP, integrated with Oracle Fusion Cloud Enterprise Performance Management (EPM).
 The project team had a clear vision: The ERP implementation was more than an IT upgrade. It was an opportunity to create and sustain business value companywide, generating "more data and higher quality," says Michelle Green, vice president, business technology, strategy, transformation, and governance. "Ultimately, the functionality and automation help us make more effective enterprise-wide decisions."
 This vision helped Discover complete the ERP implementation on time and on budget, despite working remotely during the COVID-19 pandemic. "There are two things I look for in an implementation," says Green. "The first is when people say the implementation was a nonevent. The second is when people start giving unsolicited feedback that they're loving the systems. On day 15, post go-live, we heard both." The modernized ERP platform has paid off. With faster access to financial information, discover employees' companywide can more effectively manage expenses. Lines of business enjoy more accurate planning projections and cost analysis. With standardized functionality replacing customization, employees spend less time deciphering technology and more time achieving results. And with quarterly cloud functionality updates delivered automatically, Discover can continue to enhance its processes and ways of working.
- a) Discuss the challenges faced by the organization that led to the decision of ERP implantation.
 b) Highlight the significant changes that was brought into the organization because

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