

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech CSE - Manufacturing Informatics
Subject (Course): : IT Adoption for Manufacturing ERP
Course Code : CSEG 308
No. of page/s: 02

Semester – Vth
Max. Marks : 100
Duration : 3 Hrs

Section A

Attempt all questions. Each carries equal marks.

[5x4=20 Marks]

1. Explain manpower planning. Discuss the advantages of manpower planning for manufacturing.
2. What do you understand by the term Bill of Material(BOM)? Explain Modular and configurable BOM.
3. Explain the concept and importance of good Forecasting in Business. List and explain in brief the various method of forecasting.
4. Explain Product Data Management? What are the advantages of Product Data Management?

Section B

Attempt all questions. Each carries equal marks.

[5x8=40 Marks]

5. Write a short note on the following: -
 - i) Job production.
 - ii) Batch production.
6. Briefly explain the various stages of ERP evaluation.
7. What do you understand by Product Lifecycle Management (PLM)? Briefly explain the various stages of PLM.
8. Explain the different stages of ERP implementation life cycle.
9. What is Manufacturing Executive System(MES)? Also explain the key benefits and capabilities of MES.

[P.T.O.]

Section C

Attempt all questions. Each carries equal marks

[2x20=40 Marks]

10. What do you understand by the term Production Control? Explain the following functions of Production Control :- (5+5+5+5)
- i) Loading
 - ii) Sequencing
 - iii) Scheduling
11. Explain the concept of Material Requirements Planning. With the help of diagram explain long range planning, intermediate planning and short term control of MRP II hierarchy. (5+15)

OR

What are the roles of CEO in MRP II? Explain the various steps involved in Sales and Operation Planning process. What is the role of marketing in MRP II? Also explain the concept and importance of Master Schedule in manufacturing sector.

(4+8+4+4)

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Section A

Attempt all questions. Each carries equal marks.

[5x4=20 Marks]

1. What is the concept of manufacturing? Discuss the four elements of manufacturing.
2. What are the objective and features of Discrete Industry?
3. Write a note on Manufacturing process and Material processing.
4. Explain the concept and importance of good Forecasting in Business. Explain the various categories of Timeline of Business Forecasting.

Section B

Attempt all questions. Each carries equal marks

[5x8=40 Marks]

5. Write a short note on the following: - (4+2+2)
 - i) Mass or flow production.
 - ii) Customized production.
 - iii) Make to Stock production
6. Explain with the help of diagram various components of ERP.
7. What are the essential elements of Product Lifecycle Management(PLM)? Explain the benefits of PLM.
8. Explain the implementation of ERP in supply chain. Also explain the benefits of ERP in supply chain.
9. List and explain the objectives of ERP implementation. Also highlight some of the issues in implementation of ERP.

[P.T.O.]

Section C

Attempt all questions. Each carries equal marks

[2x20=40 Marks]

10. What is the concept of Manpower Planning? Why Manpower Planning is required? Explain with the help of diagram the process of Manpower Planning. What are the advantages of Manpower Planning? (3+4+10+3)
11. List out the CEO's roles in MRP II? Explain the concept and importance of Master Schedule in manufacturing sector. Explain the various steps involved in Sales and Operation Planning process. What is the role of marketing in MRP II? (4+4+8+4)

OR

Explain the concept of Material Requirements Planning. With the help of diagram explain long range planning, intermediate planning and short term control of MRP II hierarchy. (5+15)