



**M.E DEGREE EXAMINATIONS: JUNE 2017**

(Regulation 2015)

Second Semester

**INDUSTRIAL ENGINEERING**

P15IETE02: Enterprise Resource Planning

**COURSE OUTCOMES**

- CO1:** Develop an overview of an ERP
- CO2:** Analyze the various business modules in an ERP package
- CO3:** Apply an ERP in Industries
- CO4:** Analyze the faster implementation methodologies and future direction in ERP
- CO5:** Compare various case studies in a ERP in the field of manufacturing

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Assertion (A): Data warehouse is a collection of data designed to support CO1 [K<sub>2</sub>]  
management decision making  
Reason (R): Data mining, the extraction of hidden predictive information from a  
large data base  
a) Both A and R are individually true and R is the correct explanation of A  
b) A is false but R is true  
c) A is true but R is false  
d) Both A and R are individually true and R is not the correct explanation of A
2. The following concept is used by MRP to find about the products that are going to CO1 [K<sub>1</sub>]  
make.  
a) Just in Time  
b) Aggregate Planning  
c) Master Production Schedule  
d) Manufacturing resource planning
3. Vendor Evaluation would be a part of CO2 [K<sub>1</sub>]  
a) Materials Management  
b) Manufacturing  
c) Quality assurance  
d) Human Resources
4. Matching type item with multiple choice code CO2 [K<sub>2</sub>]

List I	List II
A. Shop floor control	i. Human resources
B. Payroll accounting	ii. Vendor evaluation
C. Equipment tracking	iii. Manufacturing
D. Materials Management	iv. Plant maintenance

	A	B	C	D
a)	iv	ii	iii	i
b)	i	iii	ii	iv
c)	iii	i	iv	ii
d)	ii	i	iv	iii

5. Assertion (A): Larger enterprises become saturated with new generation client/ server ERP systems. CO3 [K2]

Reason (R): Vendors are being forced to find new markets for their product suits to Continue to drive their growth.

- a) Both A and R are individually true and R is the correct explanation of A      b) A is true but R is false
- c) Both A and R are individually true and R is not the correct explanation of A      d) A is false but R is true

6. During implementation, the following team would be appointed, if there are no in house experts. CO3 [K<sub>1</sub>]

- a) External consultants      b) Investigators
- c) Trainers      d) Auditors

7. During the implementation, cost would be involved in CO4 [K2]

1. Training
2. Auditing
3. Advertising
4. Integration and Testing

- a) 1,3      b) 1,4
- c) 1,2      d) 2,3

8. The program Fast Forward was introduced by CO4 [K<sub>1</sub>]

- a) SAP      b) People Soft
- c) Oracle      d) Microsoft

9. The following type ERP helped to make use of communication channels efficient and effective. CO5 [K<sub>1</sub>]

- a) Web enabled ERP      b) Open source ERP
- c) SCM      d) Wireless ERP

10. Different phases of ERP implementation is CO5 [K<sub>2</sub>]

1. Gap analysis, 2. Package evaluation, 3. Pre evaluation screening, 4- Project planning phase, 5-Reengineering

- a) 3-2-4-1-5      b) 4-1-2-3-5
- c) 3-4-5-1-2      d) 2-1-4-5-3

**PART B (10 x 2 = 20 Marks)**

- |   |     |                   |
|---|-----|-------------------|
| 11. Illustrate the need of ERP packages now.                                | CO1 | [K <sub>2</sub> ] |
| 12. Classify any five technologies coming under ERP                         | CO1 | [K <sub>2</sub> ] |
| 13. Explain the technologies used in data mining.                           | CO2 | [K <sub>2</sub> ] |
| 14. Outline the concept customer relationship management                    | CO2 | [K <sub>2</sub> ] |
| 15. Summarize the main modules in materials management                      | CO3 | [K <sub>2</sub> ] |
| 16. Outline about implementation methodology                                | CO3 | [K <sub>2</sub> ] |
| 17. Summarize about consultants - ERP module                                | CO4 | [K <sub>2</sub> ] |
| 18. Illustrate about the market snap shot                                   | CO4 | [K <sub>2</sub> ] |
| 19. Explain the subsystems of faster implementation methodologies.          | CO5 | [K <sub>2</sub> ] |
| 20. Infer the main aspects in conducting any case study of an ERP exercise. | CO5 | [K <sub>2</sub> ] |

**PART C (10 x 5 = 50 Marks)**

- |   |     |                   |
|---|-----|-------------------|
| 21. Construct any five points that ERP system is doing.                                       | CO1 | [K <sub>2</sub> ] |
| 22. Experiment with the ERP concept “ Best Practice Business Process”.                        | CO1 | [K <sub>3</sub> ] |
| 23. Utilize OLAP and discuss in the point of ERP technology.                                  | CO2 | [K <sub>3</sub> ] |
| 24. Develop the functional modules of ERP software in brief.                                  | CO2 | [K <sub>3</sub> ] |
| 25. Experiment with any three hidden cost in implementing ERP                                 | CO3 | [K <sub>3</sub> ] |
| 26. Build and discuss about the vendors related with ERP implementation.                      | CO3 | [K <sub>3</sub> ] |
| 27. Make use of the golden rules for successful project management and discuss.               | CO4 | [K <sub>3</sub> ] |
| 28. Apply the ERP concepts for shifting revenue models  | CO4 | [K <sub>3</sub> ] |
| 29. Construct an ERP module for new market in the aspect new trends                           | CO5 | [K <sub>3</sub> ] |
| 30. Construct and discuss the steps and procedures for conducting a case study related to ERP | CO5 | [K <sub>3</sub> ] |

**Answer any TWO Questions**

**PART D (2 x 10 = 20 Marks)**

- |   |     |                   |
|---|-----|-------------------|
| 31. Organize the different benefits of ERP in both tangible and intangible ways.            | CO1 | [K <sub>3</sub> ] |
| 32. Make use of manufacturing module elaborate any five major sub systems involved in it.   | CO2 | [K <sub>3</sub> ] |
| 33. Experiment with ERP modules and elaborate any manufacturing concepts by the case study. | CO5 | [K <sub>3</sub> ] |

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