

INDIAN MARITIME UNIVERSITY

(A Central University, Government of India)

M.Tech. (Marine Engineering & Management)

May-June 2018 End Semester Examinations

Semester: II

Management Information System (PG13T1205)

Date:01-06-2018

Time: 3 Hrs

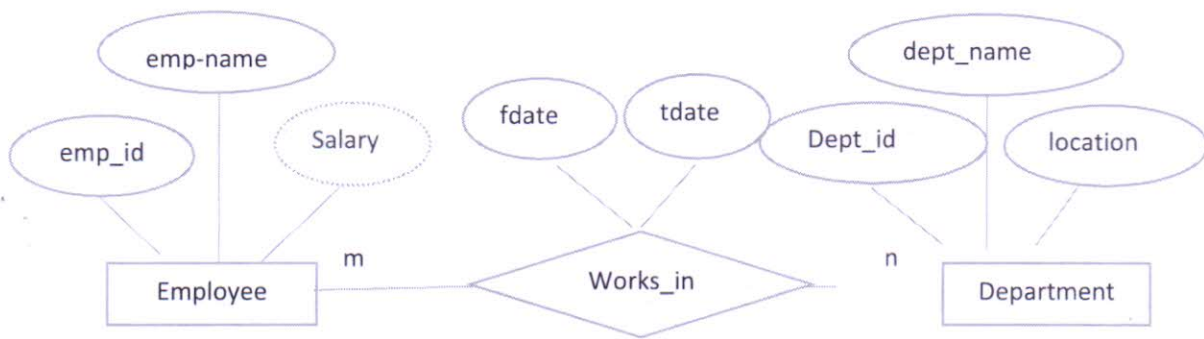
Maximum Marks : 100

Pass Marks : 50

Note: Answer any five questions. All questions carry equal marks.

(5 x 20 =100 Marks)

1. (a) What are the different types of information systems?
(b) Describe (i) Management Information Systems (ii) Expert Systems
2. (a) What are the three hierarchical levels of management activity in an organization?
(b) Describe the information characteristics related to the decision type at each level.
3. (a) What are the benefits and challenges of ERP?
(b) Draw a schematic diagram showing basic transactions cycles in an ERP for a manufacturing firm. Explain the processes involved in sequence/parallel from the order acceptance stage to order fulfilment stage
4. (a) Explain four advantages of Database Management System over the file management system.
(b) An organization wants to maintain a database about the salary of their employees. The corresponding Entity-Relationship diagram is given below.



(i) Design the tables to store the above database in the RDBMS.

(ii) Underline the primary key of each table.

(c) Using the tables obtained in 4(b) above, answer the following queries in SQL.

(i) List the employee names who earn more than 50,000.

(ii) Find the department wise total salary.

5. (a) What is meant by digitally signing a message (document)?

(b) How the digital signature is used to authenticate a message in terms of source of the message and in term of data integrity of the message?

(c) Do you think that digitally signing a message maintain confidentiality of the message? Give reasons in favor of your answer.

6. Write short notes on any FOUR of the following:

- a) Enterprise Data Mashup
- b) RFID
- c) 3D Printing
- d) Net Neutrality
- e) Virtualization

7. (a) Develop a Knowledge Management System Architecture with its tools.

(b) State whether the following statements are true or false? Justify?

(i) Knowledge management (KM) requires substantial investment in hardware and software.

(ii) KM is an analytical information, processed for specific goal.

(iii) Knowledge once created, its use is automatic straight away with assured benefits.

8. Develop a Decision Support System With Simulation For Optimisation Of Container Handling Process: Case Of Kolkata Port Trust.
