



**ENGINEERING & MANAGEMENT EXAMINATIONS, DECEMBER - 2007**  
**BUSINESS SYSTEMS & APPLICATIONS**  
**SEMESTER - 1**

Time : 3 Hours ]

[ Full Marks : 70

**GROUP - A****( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following : 10 × 1 = 10
- i) A ..... system operates in accordance with some predetermined rule.
- |                  |              |                          |
|------------------|--------------|--------------------------|
| a) probabilistic | b) abstract  |                          |
| c) deterministic | d) physical. | <input type="checkbox"/> |
- ii) Strategic Decision Making is performed by
- |                         |                            |                          |
|-------------------------|----------------------------|--------------------------|
| a) low level managers   | b) middle level management |                          |
| c) top level management | d) engineers.              | <input type="checkbox"/> |
- iii) OLAP refers to
- |  |  |                          |
|--|--|--------------------------|
| a) internet modelling                                |  |                          |
| b) internet analysis                                 |  |                          |
| c) DSS computing done by end users in online systems |  |                          |
| d) SQL for querying.                                 |  | <input type="checkbox"/> |
- iv) A Closed System is basically
- |  |  |                          |
|--|--|--------------------------|
| a) independent of its inputs                             |  |                          |
| b) dependant on its environment                          |  |                          |
| c) independent of its environment                        |  |                          |
| d) interacting with its environment in a closed fashion. |  | <input type="checkbox"/> |

v) Which of the following is not a characteristic of GSS ?

- a) Supports the process of problem solving by group
- b) Is an interactive CBIS
- c) Solves sequential problems
- d) Facilitates the solution of unstructured problems by a group.

vi) The Knowledge comes from Experience is a

- a) Declarative
- b) Procedural
- c) Heuristic
- d) Tacit.

vii) The primary function of Data Mart is

- a) Data cleaning
- b) Data integration
- c) Data selection
- d) none of these.

viii) Spiral model is a method for software

- a) Documentation
- b) Testing
- c) Development
- d) Coding.

ix) Decision table contains condition and

- a) action
- b) values
- c) relationship
- d) table.

x) OLTP stands for

- a) On Line Transmission Processing
- b) Off Line Transaction Processing
- c) On Line Transaction Processing
- d) none of these.



**GROUP - B****( Short Answer Type Questions )**Answer any *three* of the following, $3 \times 5 = 15$ 

2. Differentiate with appropriate examples, value chain and supply chain management. 5
3. What is transaction ? Explain briefly the role of Transaction Processing Systems in business process. 1 + 4
4. How can efficiency and effectiveness of a system be measured ? Which of these is more important ? Why ? 2 + 1 + 2
5. What is Expert System ? State the limitations of such systems. 2 + 3
6. Explain the limitations of waterfall model. 5

**GROUP - C****( Long Answer Type Questions )**Answer any *three* of the following questions. $3 \times 15 = 45$ 

7. Describe a typical Data-warehouse with suitable diagram. Compare the operational Data-store and a Data-warehouse. Define Data mart. What is MOLAP ? 4 + 7 + 2 + 2
8. a) How is DSS classified using Alter's Classification ? Give example of each class of DSS. 10
- b) Enumerate the functions of DSS. 5
9. a) Explain Distributed Database Processing and compare it with Centralized Processing. 5
- b) What is SDLC and what are its various parts ? 5
- c) Define EIS and discuss its objectives. 5
10. a) What is a value system ? How does IT support secondary value activities ? 5
- b) Write down ERP Architecture. 5
- c) What are Value Chain and Supply Chain ? 5



3 x 5

11. Distinguish between the following :

- a) Data warehouse and Data mart
- b) Structured and unstructured decision
- c) Data and Information.

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END

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