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.   ☐

    ii)   Strategic Decision Making is performed by

    a)   low level managers   b)   middle level management

    c)   top level management   d)   engineers.   ☐

    iii) OLAP refers to

    a)   internet modelling

    b)   internet analysis

    c)   DSS computing done by end users in online systems

    d)   SQL for querying.   ☐

    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.   ☐

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 × 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 × 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

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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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