ENGINEERING & MANAGEMENT EXAMINATIONS, DECEMBER – 2006
BUSINESS SYSTEMS & APPLICATIONS
SEMESTER – 1

Time : 3 Hours]　　　　　　　　　　　　　　　　[Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Note : Question No. 1 is compulsory and attempt any *four* from the rest.

1. Choose the correct answers of the following :　　　10 × 1 = 10

   i) Spiral model is a method for software

   a) documentation　　　　　　b) testing

   c) development　　　　　　　d) none of these.

   ii) Decision table contains conditions and

   a) actions　　　　　　　　　b) values

   c) relationship　　　　　　　d) none of these.

   iii) Knowledge comes from Experience is .... Knowledge.

   a) Declarative　　　　　　　b) Procedural

   c) Heuristic　　　　　　　　d) none of these.

   iv) Human behaviour is an example of which type of systems ?

   a) Open　　　　　　　　　　b) Non-Deterministic

   c) Closed　　　　　　　　　d) None of these.

   v) Expert System is a part of

   a) CRM　　　　　　　　　　b) AI

   c) ERP　　　　　　　　　　d) None of these.

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vi)   Which of the following is a characteristic of MIS ?

     a)   Management Oriented   b)   Integrated

     c)   Both (a) & (b)   d)   None of these.

vii)   .... are data that are available within organisation.

     a)   External data   b)   Internal data

     c)   Information   d)   None of these.

viii)   DSS can be readily adopted to meet the .... requirements for any decision environment.

     a)   system   b)   information

     c)   external   d)   none of these.

ix)   The concept of design of an MIS consists of

     a)   patterns of information flow   b)   channels of information

     c)   both (a) & (b)   d)   none of these.

x)   While building an .... system all types of possible means which may occur in future are added to make it flexible.

     a)   MIS   b)   ES

     c)   Integrated   d)   None of these.

2.   a)   Write down the drawbacks of the Waterfall model.   5

     b)   What are the differences between MIS and DSS ?   5

     c)   State the difference between declarative and procedural knowledge with examples.   5

3.   a)   Define MIS. What is the need for MIS in a Business Organization ?

     b)   List the steps for designing an implementing an MIS and illustrate the same with a flow diagram.   (3 + 3) + 9

4.   How a computer may be utilized in the business models of Material Requirement Planning (MRP), Business Process Re-engineering (BPR), Supply Chain Management (SCM) and Vendor Managed Inventory (VMI) ?   5 + 4 + 3 + 3

5. a) What is a business process ?

   b) How does business process redesign differ from total quality management ?

   c) Explain any *two* of the following terms :

      i) Trade Association

      ii) Cooperative

      iii) Franchisee.   4 + 5 + (3 + 3)

6. a) What are the charateristics of Data Warehouses ? What are the advantages of a data mart ?

   b) Compare the Online Analytical Processing and Online Transaction Processing.

   c) Draw a typical data warehouse architecture.   (3 + 3) + 5 + 4

7. What do you understand by Enterprise Resource Planning ? Write the steps in development or construction of a Data Warehouse.   5 + 10

8. Write short notes on any *three* of the following :   3 × 5

   a) Business Process Redesign

   b) Geographic Information System

   c) Network Topology

   d) Data Flow Diagram

   e) Distributed Data Processing.

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