



Name : .....  
Roll No. : .....  
Invigilator's Signature : .....

**CS/MCA / SEM-1 / MCA-102 / 2010-11  
2010-11**

**BUSINESS SYSTEMS AND APPLICATIONS**

Time Allotted : 3 Hours

Full Marks : 70

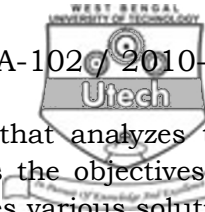
*The figures in the margin indicate full marks.*

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

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following :  $10 \times 1 = 10$ 
  - i) The primary function of Data Mart is
    - a) data cleaning
    - b) data integration
    - c) data selection
    - d) none of these
  - ii) When personnel can send and receive information from wherever they are, this corresponds to the information technology new process design option of
    - a) Shared database technology
    - b) Wireless communication technology
    - c) Automatic identification and tracking technology
    - d) Telecommunication networks and EDI technology.
  - 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) The stage in the systems life cycle that analyzes the problems of existing systems, defines the objectives to be attained by a solution and evaluates various solution alternatives is the
  - a) Project definition stage
  - b) Design stage
  - c) Systems study stage
  - d) Installation stage.
- v) The stage in the systems life cycle that translates the design specifications produced during the design stage into software program code is the
  - a) Design stage
  - b) Programming stage
  - c) Systems study stage
  - d) Installation stage.
- vi) The preliminary working version of an information system for demonstration and evaluation purposes best describes
  - a) Prototype
  - b) Logical mode
  - c) Program
  - d) Data model.
- vii) A detailed list of questions submitted to vendors of packaged software or other services to determine if the vendor's product can meet the organization's specific requirements is called
  - a) Enterprise analysis
  - b) a request for proposal
  - c) JAD
  - d) RAD.
- viii) Disadvantages of outsourcing include
  - a) it is slow and expensive
  - b) it is inappropriate for large, complex systems
  - c) it can lead to proliferation of uncontrolled information systems
  - d) the loss of control over the information systems function.



- ix) Spiral model is a method for software
- a) Documentation
  - b) Testing
  - c) Development
  - d) Coding.
- x) Advantage of end-user development include
- a) it is necessary for large complex systems and projects
  - b) it is rapid and inexpensive
  - c) the design, programming and maintenance work are reduced
  - d) the user controls systems building.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

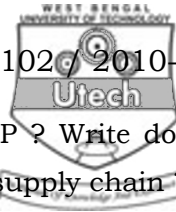
2. What are 'Information Ores' in data mining parlance ? What are OLAP cubes ?  $3 + 2$
3. What are the differences between a Data Warehouse and an Operational Data Store ?
4. What are the various characteristics of a real-time TPS ? Mention why these characters are necessary.  $2 + 3$
5. Describe the ACID properties of transactions.
6. What is an EDI ? How is it useful in case of banking transactions ?  $3 + 2$

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7. What is MIS ? In a business pyramid, identify and define the roles of various IS in the bottom, middle and top levels of the organisation. Explain briefly cost-benefit analysis.  $4 + 6 + 5$



8. What is ERP ? What are the features of ERP ? Write down ERP Architecture. What are value chain and supply chain ?

3 + 4 + 4 + 4

9. What is D.F.D. ? What are the different symbols used in it ? Explain with the help of an example. What is the advantage of D.F.D. ? Discuss in detail.

2 + 2 + 1 + 10

10. a) Present any standard, published classification of Business Systems. Your answer should indicate where in the business process of an organization these systems find use.

- b) Describe the various types of office automation systems and mention their uses.

8 + 7

11. a) What are the basic models of analysis in a Decision Support System ? Describe these models briefly.

- b) How are Executive Information Systems and DSS similar in nature ?

- c) What are Artificial Neural Networks ? What are their various types ?

5 + 5 + 5

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