

Name :

Roll No. :

Invigilator's Signature :

CS/MCA/SEM-1/MCA-102/2009-10

2009

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) OLAP is most correctly associated with

- a) Data warehousing
- b) E-commerce
- c) Batch processing systems
- d) None of these.

ii) Multimedia streaming is

- a) isochronous
- b) asynchronous
- c) synchronous
- d) none of these.

iii) Automated Teller Machine is a/an

- a) TPS
- b) MIS
- c) Expert System
- d) Office Automation System.

- iv) In ACID properties, C stands for
- a) comprehensibility
 - b) concurrency control
 - c) consistency
 - d) convergence.
- v) A model for MIS development is
- a) SSADM
 - b) Evolutionary model
 - c) Spiral model
 - d) None of these.
- vi) Knowledge that comes from experience is a knowledge.
- a) declarative
 - b) procedural
 - c) heuristic
 - d) none of these.
- vii) Decision table contains conditions and
- a) actions
 - b) values
 - c) relationships
 - d) none of these.
- viii) Which of the following is a form of Declarative Knowledge ?
- a) Collection of facts
 - b) Logical propositions
 - c) Conceptual graphs
 - d) All of these.
- ix) Fuzzy logic is useful in manipulating information.
- a) unreliable
 - b) imprecise
 - c) incomplete
 - d) boolean.
- x) Time sharing is the term used to describe a processing system where
- a) different tasks share the processing time
 - b) tasks are independent of each other
 - c) more time for I/O processing than producing outputs
 - d) all of these.

GROUP - B

(Short Answer Type Questions)

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

2. Describe IEEE Wi-Fi standards 802.11a, 802.11b, 802.11g.
3. Describe the ACID properties of transactions in brief.
4. What are the differences between DSS and MIS ?
5. What is transaction ? Explain briefly the role of Transaction Processing Systems (TPS) in business process. $1 + 4$
6. a) Explain the purpose of Feasibility study. How can detailed feasibility study be conducted ? 3
b) State the main activities involved in the requirement analysis process. 2

GROUP - C

(Long Answer Type Questions)

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

7. Distinguish very briefly between E-commerce and E-business. What is E-Governance ? How would you differentiate E-commerce on the basis of transaction type and transaction party (give very brief accounts of each with examples) ? $2 + 2 + 7 + 4$
8. What are the differences between a normal database and a data warehouse ? Present a schematic diagram of the process of data warehousing as used in businesses. What are data marts and operational databases used for ? $6 + 3 + 6$

9. a) What are the various types of feasibility ? 6
- b) Explain in detail the various steps involved in feasibility study. 9
10. a) What are the main characteristics and limitations of an Expert System ? 5 + 2
- b) Differentiate between the following : 4 × 2
- i) Declarative knowledge and Procedural knowledge
 - ii) Human intelligence and Machine intelligence
 - iii) Structured decisions and Unstructured decisions
 - iv) Data warehouse and Datamart.
11. Write short notes on any *three* of the following : 3 × 5
- a) GDSS
 - b) Geographic information system
 - c) Distributed data processing
 - d) Total quality management
 - e) Relational database management system.
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