Roll No.....................

Time allowed : 3 hours   *Maximum marks : 100*

Total number of questions : 6   *Total number of printed pages : 3*

NOTE : *Answer* **ALL** *Questions.*

1. (a) Describe the 'digital signature certificate'. Under what conditions digital signature may be suspended by the certifying authority ? Explain.

(5 marks)

(b) "Information is useful for managers." List various levels of management who need information. What factors affect the information needs of management ?

(5 marks)

(c) Briefly describe the components of database systems.

(5 marks)

(d) What are the steps for writing a good and easily understood computer program ?

(5 marks)

Attempt all parts of either Q.No. 2 or Q.No. 2A

2. (a) "The Information Technology Act, 2000 does not apply to certain documents or transactions." Explain.

(4 marks)

(b) List out the disadvantages of database management systems.

(4 marks)

(c) What is 'm-commerce' ? Describe its future prospects in India.

(4 marks)

(d) What are the critical success factors for ERP implementation ? Explain.

(4 marks)

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OR (Alternate question to Q.No. 2)

2A. Distinguish between the following :

  (i) 'Tactical management' and 'operational management'.

 (ii) 'Hardware' and 'software'.

(iii) 'Primary storage' and 'secondary storage'.

(iv) 'Relational DBMS' and 'object-oriented DBMS'.

(4 marks each)

Attempt all parts of either Q.No. 3 or Q.No. 3A

3. (a) Compact disc (CD) and digital video disc (DVD) have equal sizes, but they differ in their storage capacity. Explain.

(4 marks)

  (b) Name and explain the different types of database. Which database will you use for analysing the marketing strategies of a company ?

(4 marks)

  (c) What is a utility software ? Can it be used by any kind of users (people) ? Also, explain 'data synchronization' utility.

(4 marks)

  (d) Which factors would you consider in selecting an ERP vendor and ERP system ?

(4 marks)

OR (Alternate question to Q.No. 3)

3A. (i) Discuss the factors relevant for evaluation of management information system (MIS).

(4 marks)

  (ii) What suggestions will you recommend for successful implementation of e-governance in the country ?

(4 marks)

(iii) What is business continuity plan ? Why is it important ?

(4 marks)

(iv) Distinguish between 'top-down' and 'bottom-up' approach to MIS development.

(4 marks)

4. (a) Discuss key strengths of using ERP in an organisation.

(4 marks)

(b) How can electronic data interchange (EDI) provide significant benefits to an organisation ? Explain.

(4 marks)

(c) What are the basic systems security measures ? Explain.

(4 marks)

(d) What is 'data mining' ? How does it help organisations in taking considered and knowledge driven decisions ?

(4 marks)

5. (a) Explain the term 'world wide web' (www.). What are the features of the world wide web ?

(8 marks)

(b) What are the various challenges before stakeholders with regard to evolution of e-governance in India ? Discuss.

(8 marks)

6. (a) What kind of security measures must be applied to intermediate systems, *i.e.*, medium criticality and high criticality systems ? Explain.

(8 marks)

(b) What type of network would you like to set-up in your organisation for communicating non-sensitive but useful information among employees such as corporate news, details of health insurance, product pricing, in-house training programmes, *etc.* ? Give justification for your answer. State the strategies for the success of recommended network.

(8 marks)

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