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. Answer the following :

(a) "The Cyber Appellate Tribunal enjoys the powers of a Civil Court under the Code of Civil Procedure, 1908." Comment.

(b) Explain and provide one example each of decisions belonging to the category of strategic decisions, tactical decisions and operational decisions. Assume any organisation you are familiar with.

(c) How does DBMS support multiple views of data ? How is data independence achieved in DBMS ?

(d) Explain the terms internet, intranet and extranet giving their uses in business organisation.

(e) What is ERP ? What are the major benefits and drawbacks of ERP ?

(4 marks each)

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

2. Answer the following :

(a) What is 'encryption' ? Discuss the role of public and private key in safeguarding sensitive organisational data.

(b) Explain the duties of the Certifying Authority under the Information Technology Act, 2000 in respect of digital certificates.

(c) Differentiate 'OCR', 'OMR' and 'MICR'.

(d) Distinguish between 'utility software' and 'application software'.

(4 marks each)

334

OR (Alternate question to Q.No. 2)

2A. Differentiate the following :

  (i) 'Digital signature' and 'digital certificate'.

 (ii) 'Database', 'data warehouse' and 'data marts'.

(iii) 'Data', 'information' and 'knowledge'.

(iv) 'System audit' and 'system evaluation'.

(4 marks each)

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

3. Answer the following :

(a) "DSS are specialised types of information systems designed to support managers for taking rational decisions." Illustrate with an example.

(b) Comment on the following :

  (i) A system that advises builders about which cement to use is an expert system.

 (ii) A hospital patient-admission system is a transaction processing system.

(c) What is 'data mining' ? State two of its uses for a business organisation.

(d) List out the focus areas and major elements of information systems audit process.

(4 marks each)

OR (Alternate question to Q.No. 3)

3A. Write notes on the following :

  (i) Cloud computing

 (ii) Computer viruses

(iii) Electronic data interchange (EDI)

(iv) Issues in e-governance in India.

(4 marks each)

4. Answer the following :

    (a) Enumerate the distinguishing features of 'multi-programming' and 'multi-processing'.

    (b) What is an 'electronic record' ? Discuss the details contained in relevant section of the Information Technology Act, 2000 about the authenticity of electronic records.

    (c) What do you mean by the term 'assembler' ? How does it differ from 'compiler' ?

    (d) List out the attributes used to assess the quality of information. Illustrate with an example.

(4 marks each)

5. Answer the following :

    (a) What is programming ? Briefly mention the various steps involved in programming process.

    (b) Explain the role and functions of 'supply chain management' in business operations.

(8 marks each)

6. Answer the following :

    (a) What is DBA ? What are its major responsibilities ?

    (b) What are the functions of Controller of Certifying Authorities as per the Information Technology Act, 2000 ?

    (c) Draw a flow chart to read two numbers and print larger of the two numbers.

    (d) What is electronic fund transfer (EFT) ? How is this transaction secured ?

(4 marks each)

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