

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) Comment on the punishment for publishing or transmitting of material containing sexually explicit act, *etc.*, in electronic form as stated in section 67A of the Information Technology Act, 2000.
- (b) How is decision support system (DSS) different from management information system (MIS) ?
- (c) What is CPU ? Discuss any three important functions performed by CPU.
- (d) Briefly describe any four elements of databases.
- (e) How does a browser act as an interface between the user and world wide web (www) ? Also mention important features of the browser.

(4 marks each)

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

2. (a) What are the key dimensions to e-commerce security ?
- (b) What do you mean by the goal of information generation ? State the basic processes involved in information generation ?
- (c) Define 'off-the-shelf' software packages. Describe briefly any six application softwares.
- (d) What are the advantages of optical discs ? How many bytes of data are available in 8 GB of computer storage ?

(4 marks each)

*OR (Alternate question to Q.No. 2)*

**2A.** Distinguish between the following :

- (i) 'Primary information' and 'secondary information'.
- (ii) 'Random access memory' and 'cache memory'.
- (iii) 'Structured decisions' and 'unstructured decisions'.
- (iv) 'Machine language' and 'high level language'.

*(4 marks each)*

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

- 3.** (a) What are the information needs of top management ? Which information system is suitable for top management and why ?
- (b) What are the types of files used by SQL server databases ?
- (c) What are the characteristics of a good executive information system (EIS) ?
- (d) Discuss the features of sales and personnel modules of ERP.

*(4 marks each)*

*OR (Alternate question to Q.No. 3)*

**3A.** Write notes on the following :

- (i) Benefits of e-governance
- (ii) Scope of information systems audit
- (iii) Characteristics of B2B e-commerce
- (iv) Characteristics of data warehouse.

*(4 marks each)*

: 3 :

4. (a) What is an 'expert system' ? Briefly explain its components.  
(b) What is customer relationship management (CRM) ? How can CRM be maintained in e-commerce ?  
(c) Why is data organised in star schema in a data warehouse ?  
(d) Explain the components of a uniform resource locator (URL).  
*(4 marks each)*
5. (a) What are the various threats in e-commerce ? How can these threats be counter measured ?  
*(8 marks)*  
(b) What are the components and characteristics of management information system (MIS) ?  
*(8 marks)*
6. (a) What is the objective of establishing Cyber Appellate Tribunal under the Information Technology Act, 2000 ?  
(b) What are the advantages of using flowchart while solving a problem ?  
(c) List out the steps involved in the implementation of ERP in an organisation.  
(d) What are the challenges of e-governance before stakeholders ?  
*(4 marks each)*

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