

Roll No.....

Time allowed : 3 hours

Maximum marks : 100

Total number of questions : 6

Total number of printed pages : 4

NOTE : Answer **ALL** Questions.

1. The RTL India Ltd. is an Online retailing company selling electronic mercantile, grocery, food and other items. The company is doing well across metro cities and wishes to expand its coverage into urban areas with IT networking infrastructures. For online selling of these products, a consumer gets registered thru an online App or use his (her) credit/debit card to make online payment. In the recent past, the company is facing issues regarding cyber frauds and customers are complaining about the fraudulent transactions occurring thru their accounts, hence RTL India's reputation is at stake due to such issues. The company has decided to upgrade information systems software with IT enabled infrastructures by improving security on their network and providing cloud based services. You have been appointed as an advisor (consultant) to suggest ways to improve security strategies, good usage of supply chain management and uplifting the image of company with different stakeholders.

Based upon the above description, answer the following questions :

- (a) What is meant by 'secure system' ? Define public key and private key.

(3+1+1=5 marks)

- (b) What does digital signature ensure ? How you can as an IT professional becomes a certifying authority ?

(3+2=5 marks)

: 2 :

(c) Under section 49 of IT Act, 2000 what is the composition of Cyber Appellate Tribunal (CAT) ? Enumerate the functions of CAT.

(2+3=5 marks)

(d) For a secured system, a good and cryptic password is required. How to create 'good' password ?

(5 marks)

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

2. (a) What are the major modules of the ERP package and their functions ?
- (b) Information is indeed valuable to a decision making process. Discuss four distinguishing features of information.
- (c) In recent times, Agile software development process has become very important. What are the merits using agile process ?
- (d) Being 'Online' is a recent trend in IT, discuss social computing as the need of the time.

(4 marks each)

OR (Alternate question to Q. No. 2)

2A. Distinguish between the following :

- (i) Assembly Language and High Level Language
- (ii) UDP and ICMP
- (iii) Hierarchical and network DBMS
- (iv) G2C and G2G

(4 marks each)

: 3 :

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

3. (a) Briefly explain the objectives of making Information Technology Act, 2000 of India.
(b) What is the role of E-commerce in supply chain management ? Briefly explain.
(c) Name the important reasons in conducting Information System Audit.
(d) What are the documents to be verified by IS auditor in System Development Methodology ? State briefly.

(4 marks each)

OR (Alternate question to Q. No. 3)

- 3A. (i) Discuss briefly suspension of Digital Signature Certificate.
(4 marks)
- (ii) Discuss about RDBMS and Object oriented DBMS with examples.
(2+2=4 marks)
- (iii) How performance of a computer system is improved using a cache memory ? What are their advantages and disadvantages ?
(1+2+1=4 marks)
- (iv) Draw a block diagram of a computer system. Explain its functional components.
(1+3=4 marks)
4. (a) Explain in brief the business values of ERP.
(4 marks)
- (b) What are the core capabilities of Decision Support System ?
(4 marks)

: 4 :

(c) The Government of India has approved the National Policy on Software Products (NPSP) - 2019. In order to achieve the vision of NPSP - 2019, discuss the five missions of the policy.

(4 marks)

(d) What are the limitations of using MIS ? State any four limitations.

(4 marks)

5. (a) A housing society having 400 members pay the electricity bill at the following rates :

No. of Units consumed	Charges/Unit (₹)
For the First 200 units	2.65
For the next 300 units	3.90
Over 500 units	4.65

Surcharge @ 5% of the bill is to be added to the charges.

Draw a flow chart for the above, which will read the house number and the number of units consumed and print out the total charges with the house number and the unit consumed.

(8 marks)

(b) What an application software does ? List out the examples of some application software and discuss them briefly.

(2+6=8 marks)

6. Write short notes on the following :

- (a) Use of Big data business analytics
- (b) Common Service Centre
- (c) Types of cloud computing services
- (d) Features of Wi-Fi

(4 marks each)

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