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.   Alpha Ltd. company is a large retailer with more than 16000 employees, having outlets at different locations in India. The company is offering computers, its peripheral products and its services. Their business growth is badly affected due to competitive environment. It has also come to the notice of the management that there is a significant dissatisfaction of customers in the matter of servicing. Alpha Limited expressed a need for high capacity, high bandwidth network to meet their evolving business requirements and to serve their customers in better ways. Company also decided to subscribe for cloud computing services and also desired to adopt Mobile commence for conducting financial and promotional activities.

As an IT expert, management of the company has sought your advice on the following issues : What advice would you give ?

(*a*)   What are the key components of M-Commence Applications ?

(*b*)   What strategies would you suggest to follow for effective success of Extranet ?

(*c*)   What is Protocol ? How Post Office Protocol Version 3 (POP3) and Simple Mail Transfer Protocol (SMTP), Protocols are used in transmitting e-mail across the internet ?

(*d*)   What is cloud computing ? What are the different categories of services offered by public cloud provider to the company ?

(*5 marks each*)

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

2. (*a*) What are the constraints of operating a Management Information System ?

   (*b*) What do you understand by Program Development Life Cycle (PDLC) ? Briefly discuss *three* steps with procedure and its description of PDLC.

   (*c*) Explain any two different characteristics of Data Warehouse. How is it different from the Data base.

   (*d*) Discuss the essential functions of an Operating System.

   (*4 marks each*)

OR (Alternate question to Q. No. 2)

2A. Distinguish between the following :

   (*i*) Mainframe computer and Micro computer

   (*ii*) Online and Real Time Processing

   (*iii*) Top-down and Bottom-up approach in MIS development

   (*iv*) Data Description Language (DDL) and Data Manipulation Language (DML)

   (*4 marks each*)

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

3. (*a*) What are the criteria which need to be considered for the selection of an Enterprise Resource Planning (ERP) system ?

   (*4 marks*)

(*b*)　　Explain the basic system of security measures to secure data from unauthorized access.

(*4 marks*)

(*c*)　　Define Algorithm. Briefly explain the various control structures used in Algorithm.

(*4 marks*)

(*d*)　　Explain the various major activities of an Information System.

(*4 marks*)

OR (Alternate question to Q. No. 3)

3A.　　Write short notes on the following :

(*i*)　　Android Operating System

(*ii*)　　Video card and Network card

(*iii*)　　E-Commerce Threats

(*iv*)　　Real analytics and Social computing.

(*4 marks each*)

4.　　(*a*)　　Information system audit ensures safeguarding of assets. Briefly explain types of assets safeguard by audit team of Information Systems.

(*b*)　　Explain various primary functions of CPU.

(*c*)　　What are the benefits of Electronic Payments ?

(*d*)　　Discuss the controls of system audit of computerized secretarial records.

(*4 marks each*)

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5. *(a)* Discuss the various offences made by a person for damage to computer, computer system etc., under section 43 of IT Act 2000 ?

(b) What is Data Model ? Briefly explain the different types of Data base models.

(8 marks each)

6. Write short notes on the following :

(a) Challenges in E-Governance

(b) Track ball

(c) Punishment for Cyber Terrorism as per IT Act, 2000

(d) Transfer Control Protocol/Internet Protocol (TCP/IP).

(4 marks each)