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.   ABC Ltd., is renowned company in Supply Chain Management (SCM) sector in India. Company has many clients across India and Globe. The company provides wide range of SCM solutions which integrate functions such as manufacturing and distribution by managing the information, material flow, financials etc. In order to serve its customers, the company has various offices across major cities in India and also abroad. Due to some Global Pandemic, the authorities in India decide for complete lockdown across the country for a brief period to contain the spread of pandemic. Accordingly, ABC Ltd., decides that all the employees of the company should work from home. The company has well established Intranet and Extranet, providing access to its employees and controlled access to outside customers and collaborators. In order to manage the information and material flow among its SCM partners, the company is using computerised Management Information System (MIS). The company is using Microsoft Dynamics ERP software to take care of company operations and employee establishment issues. This ERP system was adopted by the company for its business specific requirement, after proper analysis of essential qualities required for its business. Accordingly, the company with its robust IT infrastructure has been able to properly safeguard its operations in such situations and emerged as a leader in SCM sector.

Based on the above, attempt the following :

(*a*)   Briefly discuss any *five* (05) essential qualities which are required in ERP system selection.

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(*b*) Explain any *two* (02) ERP solutions offered by Microsoft Dynamics.

(*c*) Even though MIS system helps a lot in managing business information, still it has certain limitations. Mention any *five* (05) such limitations.

(*d*) Briefly discuss any of the *five* (05) important strategies necessary for success of Extranet.

(*5 marks each*)

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

2. (*a*) What are the provisions relating to suspension of digital signature by the certifying authority under section 37 of IT Act, 2000 ?

(*b*) What is Data Mining ? Briefly discuss the categories of Data Mining techniques.

(*c*) Briefly explain any *four* (04) characteristics of information required for Tactical planning.

(*d*) Explain the 'clock' component of CPU. How many bytes of data can be stored in a 16 GB pen drive ?

(*4 marks each*)

OR (Alternate question to Q. No. 2)

2A. Distinguish between the following :

(*i*) Windows and Android Operating System

(*ii*) OCR (Optical Character Recognition) and Bar Code Reader

(*iii*) Factual and Analytical Information

(*iv*) Bluetooth and WiFi.

(*4 marks each*)

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

3. (*a*) What are the major advantages of Agile systems ?

(*4 marks*)

(*b*) Discuss the various types of software required in a Database System.

(*4 marks*)

(*c*) What are the assets, whose safeguarding is one of the prime objectives of IT Audit ?

(*4 marks*)

(*d*) What do you understand by Computer Software ? Discuss Transition Characteristics of good software.

(*1+3=4 marks*)

OR (Alternate question to Q. No. 3)

3A. (*i*) Discuss the process of the Resignation and the Removal of Chairperson or Member of Cyber Appellate Tribunal.

(*2+2=4 marks*)

(*ii*) Briefly describe any *four* (4) elements of database.

(*4 marks*)

(*iii*) What is a Payment Gateway ? What are the major points of Electronic Payments which contributes to its efficiency in its widespread use ?

(*2+2=4 marks*)

(*iv*) Briefly discuss some of the complexities in developing a good and problem free MIS software to meet the needs of the Micro Finance Institutions (MFIs).

(*4 marks*)

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4. (*a*) Discuss the Vision of NSDG in e-Governance in India.

(*b*) What are the functions of Controller of Certifying Authority ?

(*c*) Define Business Process Re-engineering (BPR). What is the reason for its Automation ?

(*d*) Explain any *four* (04) attributes of data or information, which are maintained by Information System Audit.

(4 marks each)

5. (*a*) Explain the basic e-Governance models along with any *two* (02) types of services or information provided by each of these e-Governance models.

(*b*) Explain in brief various limitations which are associated with an ERP system.

(8 marks each)

6. Write short notes on the following :

(*a*) Digital Certificate

(*b*) Flow Chart

(*c*) Modem

(*d*) Online Transaction Processing (OLTP).

(4 marks each)