Bharati Vidyapeeth's
Institute of Computer Applications and Management (BVICAM)
A-4, Paschim Vihar, New Delhi-63
THIRD SEMESTER [MCA] Internal Examination, December 2022

Paper Code: MCA–225	Subject: e-Business Systems

Time: 2 Hours	Maximum Marks: 45

Note: Attempt THREE questions in all. Question No. 1 is compulsory, and attempt one question from each unit.

1. Answer all the following questions briefly: -   1.5 × 10 = 15

    (a) State the reason why B2B e-Commerce is called e-Procurement.   CO1

    (b) Compare e-Commerce with e-Business.   CO1

    (c) Describe different tools used to manage an e-Commerce business. List the names   CO1
         of five popular e-Commerce platform services.

    (d) List the support activities, provided by the central corporate organization, of the   CO1
         strategic business unit.

    (e) Identify the key drivers of e-Commerce in India.   CO1

    (f) List the best practices for implementing confidentiality and availability of   CO2
         information system resources.

    (g) Describe various mechanisms used to assure the integrity of a data in database.   CO2

    (h) Explain the Rail Fence transposition encryption technique. Encrypt the plain text   CO2
         "e-business systems examination is on wednesday" using Rail Fence technique
         with depth 2.

    (i) Demonstrate the working of Data Encryption Standard (DES) algorithm with an   CO2
         appropriate diagram.

    (j) Differentiate between digital certificate and digital signature. Classify classes of CO2
         digital certificates.

UNIT - I

2. (a) Describe various categories of e-Commerce. List the benefits and limitations   5   CO1
         of e-Commerce.

    (b) Identify the need of private computer network. List the drawbacks of private   5   CO1
         computer network. Compare circuit-switched network with packet-switched
         network.

    (c) Discuss various web-based tools available for e-Commerce. Explain the role of   5   CO1
         enterprise resource planning (ERP) for an e-Commerce business.

3. (a) Explain the role of industry value chain. Describe the industry value chain for 5   CO1
         a wooden chair.

    (b) Identify the role of a strategic business unit of a business. Discuss the primary 5   CO1
         activities conducted by the strategic business unit of a business.

(c) Describe virtual private network and its need. Compare intranet with extranet. 5 CO1

UNIT - II

4. (a) Differentiate between HTTP and HTTPS. Explain the working and importance of Secure Sockets Layer (SSL). Suppose an organization wants to secure its website (single domain and all its subdomains), which type of SSL certificate will be applicable for the organization? 5 CO2

(b) List the steps of Rivest-Shamir-Adleman (RSA) algorithm of cryptography. Given p = 17, q = 11 and plain-text message m = 18, determine the cypher-text message using RSA algorithm. 5 CO2

(c) Discuss various security threats and issues of e-Commerce. 5 CO2

5. (a) Identify the need of public key infrastructure. Describe various components of public key infrastructure. 5 CO2

(b) Compare symmetric key cryptography with asymmetric key cryptography. Explain the encryption process performed with digital signature. 5 CO2

(c) Demonstrate the working of digital signature using an appropriate diagram. Discuss the importance of digital signature. 5 CO2