Printed Pages—3   **MCA413**

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1456   **Roll No.** [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

M.C.A.

(SEM. IV) THEORY EXAMINATION 2010-11

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours   *Total Marks : 100*

MCA405

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1480   **Roll No.** [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

(SEM. IV) THEORY EXAMINATION 2010-11

FOUNDATION OF E-COMMERCE

Time : 3 Hours   *Total Marks : 100*

Note :—(1)   Attempt **ALL** questions.

(2)   All questions carry equal marks.

1.   Attempt any **two** parts of the following :   **(10×2=20)**

(a)   (i)   Define E-Commerce. Also discuss the importance of E-Commerce.

(ii)   Explain B2C E-Commerce with an appropriate example.

(b)   Define and explain the difference between intranet and extranet. Explain how they provide value to e-business ? Discuss.

(c) Explain the following in brief :

    (i)   ATM (Asynchronous Transmission Mode)

    (ii)   ISDN (Integrated Services Digital Network).

2.   Attempt any **two** parts of the following :   **(10×2=20)**

    (a)   What do you mean by m-commerce ? Discuss the importance of m-commerce in todays business environment.

    (b)   (i)   What is WAP ? Why is WAP required in mobile phone system ?

          (ii)   Discuss about WAP gateway. Why is it required ? Also discuss its functions.

    (c)   Write short notes on :

          (a)   Mobile Computing

          (b)   GPRS.

3.   Attempt any **two** parts of the following :   **(10×2=20)**

    (a)   (i)   Explain Firewall. Where is it used ? Why is it necessary ?

          (ii)   Discuss the working of packet filtering fire wall.

    (b)   Discuss the various factors that may be considered in firewall design.

    (c)   What do you understand by client/server computing ? Discuss the various ways to improve the performance of client server computing.

4.   Attempt any **two** parts of the following :   **(10×2=20)**

    (a)   Describe the Digital Encryption standard algorithm briefly giving the various steps it uses for encryption. Is it considered seure ? If no, then give the reasons.

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(b) Explain how Diffie-Hellman key exchange algorithm can be used by a customer and vendor for secure e-commerce transaction.

(c) What is a digital signature ? How is an e-document signed by a sender and sent to a receiver ? Discuss.

5. Attempt any **two** parts of the following : **(10×2=20)**

(a) What do you understand by on-line banking ? Discuss the merits and demerits of online banking.

(b) What is EDI ? How does EDI work ? Also discuss the benefits of EDI.

(c) (i) Why are e-commerce law required ? Discuss.

   (ii) What is a credit card ? How are the credit card transactions carried out ? Discuss.