

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

PAPER ID :**Roll No.**

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MCA

Theory Examination (Semester-II) 2015-16
FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours**Max. Marks : 100****SECTION-A****(2 x 10 =20)**

1. Attempt all parts. Write answer of each part in short.
 - a) What do you mean by B2B types of e-commerce?
 - b) What is the communication protocol used by Internet?
 - c) Write four disadvantages of M-Commerce.
 - d) What is WAP protocol stack/suite?
 - e) How proxy server is used in the network?
 - f) Why are firewalls used in organization?
 - g) What do you understand by EFT?
 - h) Define Cryptography & Digital Signature?
 - i) What are the risks involved in Electronic Payment Systems?
 - j) How many states are there in each version of Advanced Encryption Standard (AES)?

SECTION-B**(10 x 5 = 50)**

2. Attempt any **five** questions from this section.
 - a) (i) Define the terms internet, intranet and extranet and briefly explain the role each plays in e-business.
 (ii) Describe generic framework for electronic commerce with suitable diagram?
 - b) (i) Discuss various attributes of M-Commerce and its economic advantages. Also discuss mobile computing infrastructure.
 (ii) Describe the model of internet-based mobile computing. Also explain network security importance in e-commerce.
 - c) (i) Discuss Wireless Application Protocol (WAP) and the technology behind it.
 (ii) How does an authentication system differ from a firewall in functioning?
 - d) Explain network security. What are the types of security features used in client server types of network?
 - e) (i) What is Public Key Cryptography? What are its advantages and disadvantages?
 (ii) How digital signature technology works? How does it differ from digital certificate?
 - f) How VPN maintains the confidentiality of resources from the existing physical network to a selected group of nodes within the same network.
 - g) (i) Compare and contrast smart cards with traditional credit cards.
 (ii) Discuss applications of EDI in business.
 - h) What do you mean by Supply Chain Management (SCM)? How is the SCM related to e-commerce?

SECTION-C**(15 x 2 = 30)**

- Attempt any **two** questions from this section.
3. (i) Discuss the specific benefits that are offered by E-Commerce to consumers, merchants and the society as a whole.
 (ii) Why a network infrastructure is required for successful e-commerce applications? Justify with examples.
 4. (i) Explain briefly how firewalls protect network. Also discuss limitations of Firewalls.
 (ii) What is the role of certification authorities in e-commerce environment? How can two parties enter a non-repudiable legal contract in e-commerce environment?
 5. (i) Describe how various forms of encryption technology help protect the security of messages.
 (ii) Explain RSA algorithm. Illustrate how the encryption and decryption works.

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