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# B. Tech.

## (SEM.V ) THEORY EXAMINATION 2011-12

### E-COMMERCE

*Time : 3 Hours*                                   *Total Marks : 100*

**Note :–** Attempt **all** questions.

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

   (a)  Define e-commerce. What are the different types of e-commerce model ? Discuss with examples.

   (b)  Discuss the advantages and disadvantage of e-commerce.

   (c)  Explain the following :

       (i)  TCP/IP

       (ii)  Routers and Hub

       (iii)  HTML

       (iv)  ATM.

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

   (a)  Distinguish between intranet and extranet. Why a network infrastructure is required for successful e-commerce applications ?

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(b) Discuss the layered architecture of Wireless Application Protocol. Why is a layered architecture used ? Explain.

(c) Define m-commerce. What are the relative advantages of m-commerce over e-commerce ? Also discuss the applications of m-commerce.

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

(a) What do you understand by Client Server Network ? What may be possible security threats to it ? Discuss.

(b) (i) What is a firewall ? Where is it used ? Discuss the limitations of firewall.

(ii) Explain the working of packet filtering firewall.

(c) Distinguish between confidentiality, authenticity and non-repudiation of messages sent between a customer and an organization in e-commerce.

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

(a) Describe the Data Encryption Standard (DES) briefly giving the various steps it uses for encryption.

(b) Explain RSA algorithm. Illustrate how the encryption and decryption works.

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(c) What is a digital signature ? What are the requirements that a digital signature must satisfy ? Explain.

5. Write short notes on any **two** :  (10×2=20)

   (a) The SET protocol

   (b) E-Commerce Law

   (c) EDI Application in business.