

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

PAPER ID : 2169

Roll No.

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### B. Tech.

(SEM. V) ODD SEMESTER THEORY

EXAMINATION 2010-11

### E-COMMERCE

Time : 3 Hours

Total Marks : 100

Note :—Attempt all questions.

1. Attempt any **four** parts of the following :— (5×4=20)
  - (a) Describe the advances in technology, which has facilitated e-commerce.
  - (b) Discuss the advantages of e-commerce in reference to the followings :—
    - (i) Society
    - (ii) Customer.
  - (c) Why is network reliability very important for e-commerce ? What factors cause problems for network reliability ?
  - (d) The architectural framework for e-commerce consists of six layers of services. List down each service and explain in short.
  - (e) Discuss the impact of e-commerce on business.
  - (f) Explain C2C e-commerce with an appropriate example.
2. Attempt any **four** parts of the following :— (5×4=20)
  - (a) Which types of organizations prefer to maintain their own private network ? What are the advantages of a private network ?

- (b) What is the communication protocol used by Internet ? What is the advantage of using such a common standard protocol to interconnect computers ?
- (c) Write down the advantages of broadband telecommunication ? Why is it important for e-commerce ?
- (d) Name the various mobile information access devices and discuss their roles in mobile computing.
- (e) What is WAP protocol stack/suite ? Write down a brief description of all parts of WAP suit.
- (f) Write down the use of following equipments :
- Digital switches
  - Routers
  - Hubs
  - Cable TV set-top boxes.
3. Attempt any **four** parts of the following :— (5×4=20)
- (a) What is Web ? What do you mean by Web security ? Discuss the goals of web attackers.
- (b) Explain the following security threats for e-commerce :
- Secrecy threats
  - Integrity threats
  - Necessity threats
  - Server threats.
- (c) Discuss the various methods that can be implemented for network security.

- (d) Why are firewalls used in organizations ? What are its main components ?
- (e) How do you select firewall for an organization ? Discuss.
- (f) What is VPN ? What are its benefits for organizations ?
4. Attempt any **two** parts of the following :— (10×2=20)
- (a) What is the need of secure transaction in e-commerce ? When a message is sent by A to B on the Internet, what are the types of security problems which may be encountered ?
- (b) What do you mean by cryptography, encryption and decryption ? Discuss any two encryption techniques.
- (c) What is digital signature ? How is an e-document signed by a sender and sent to a receiver ? How does the recipient of a signed e-document authenticate the signature ?
5. Attempt any **four** parts of the following :— (10×2=20)
- (a) What is smart card ? What are the advantages of smart card over credit cards ? Also explain about the different types of smart cards.
- (b) What do you mean by online banking ? What are their advantages over traditional banking ? What services are usually provided by online banking ? "Online banking is secure." Justify the statement.
- (c) Write short notes on the following :—
- E-commerce laws
  - SET protocol.