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IT-703

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Kumar Goel Institute of Technology

B. TECH.

GHAZIABAD

SEVENTH SEMESTER EXAMINATION, 2003-2004

E-COMMERCE

Time : 3 Hours

Total Marks : 100

Note : Attempt ALL questions.

1. Attempt any *FOUR* parts of the following :— (5×4=20)

- (a) (i) What is the difference between E-commerce and E-business? How can e-commerce help to reduce inventory costs? Explain with suitable example.
- (ii) What are five potential benefits of e-commerce for consumers?
- (b) (i) What is I-way? Why is it required for e-commerce applications?
- (ii) Name two major technologies used for high-speed global information distribution networks. Explain any one of the technologies.
- (c) (i) Differentiate between Connectionless and Connection-oriented networks using suitable examples. Which one is more reliable and why?
- (ii) Differentiate between Fast Packet switching and Traditional Circuit switching.

- (d) (i) Write down the advantages and disadvantages of using Frame Relay.
- (ii) Define the following terms :—
- (a) ATM (b) ISDN (c) SONET (d) SDH
- (e) What is the architectural framework for e-commerce ? Explain in detail.
- (f) (i) Does Internet access make employees more or less productive ? Justify your answer.
- (ii) How can e-commerce enhance customer service ? Explain with suitable example.
2. Attempt any *FOUR* parts of the following :— (5×4=20)
- (a) What is TDMA ? Compare it with CDMA.
- (b) (i) What are the advantages and disadvantages of using circuit switched cellular transmission ?
- (ii) What are VSATs ? What types of organizations use them and why ?
- (c) Define the following terms :
- (i) WAP
- (ii) PDA
- (iii) Hybrid Pen Computers
- (d) (i) What do you mean by software agents and malicious code threat ? Write some examples of malicious code.
- (ii) What is an IP Packet Screening Router ?
- (e) What is a Firewall ? Write down the different types of firewalls and mention their levels of security.

- (f) (i) Distinguish between FTP and Telnet.
- (ii) What is Finger ?
- (iii) What role does authentication play in firewall security ?

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

- (a) (i) What is Encryption ? Differentiate between Cleartext and Ciphertext.
- (ii) What is a Key ? Explain key length and a symmetric key system.
- (iii) What is a public private key pair ?
- (b) (i) Write down the various WWW based security schemes and explain them.
- (ii) What is DES ? How much stronger is 128-bit key than 64 or 56-bit DES key ?
- (iii) What is RSA ?
- (c) (i) What is Message Integrity ? Discuss message sender authentication.
- (ii) Explain the following :—
 - (a) VPN
 - (b) Cookie
 - (c) E-mail Spoofing

Attempt any *TWO* parts of the following :— (10×2=20)

- (a) (i) Are e-checks different from traditional EDI systems ? Explain.
- (ii) What are the possible major risks in the operation of electronic payment systems ? Explain each risk with a suitable example.
- (iii) What is a Debit Card ?

- (b) (i) What is Online Banking? What are the major benefits of it and how does it differ from Home Banking?
- (ii) What is a Smart Card? What are the benefits of using a smart card? Compare it with other electronic payment systems.
- (c) (i) Explain the business pros and cons of credit card based payment system.
- (ii) What is double spending problem with e-cash? How is it detected and rectified?

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

- (a) (I) Explain how EDI helps in the following :—
 - (i) Reducing paper based systems
 - (ii) Expanding customer/supplier base
 - (iii) Improving problem resolution and customer services
- (II) Define VAN. What services are provided by VANs?
- (b) (i) Write down the differences between EDI and e-mail.
- (ii) Why is EDI a key element in a JIT (just-in time) environment?
- (iii) Why is translation software necessary for EDI to work properly?
- (c) (i) Write down the legal status of EDI messages.
- (ii) Explain the following terms :—
 - (a) Supply Chain Management
 - (b) Work Flow Management
 - (c) CRM