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Printed Pages—4

IT—703

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

PAPER ID : 1304

Roll No.

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B.Tech.

SEVENTH SEMESTER EXAMINATION, 2005-2006

E - COMMERCE

Time : 3 Hours

Total Marks : 100

Note : (i) Attempt **ALL** questions.

(ii) All questions carry equal marks.

(iii) In case of numerical problems assume data wherever not provided.

(iv) Be precise in your answer.

1. Attempt **any four** of the following questions : (5x4=20)

(a) (i) What is electronic commerce and how does it differ from traditional commerce ?

(ii) What are the potential benefits of e-commerce ?

(b) (i) What is the likely impact of e-commerce on economic structures like the industry and consumers ?

(ii) What is the supplier-centric B2B electronic commerce ?

(c) (i) Categorize electronic commerce transactions based on the entities involved.

(ii) What is intra-organizational e-commerce and what are its potential benefits ?

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- (d) (i) What is the architectural framework of e-commerce ? Explain in detail.
- (ii) What is the role of on-line payment systems in e-commerce ?
- (e) (i) What are the various transmission media used in local area networks ?
- (ii) What is CSMA/CD protocol ?
- (f) Describe the TCP/IP reference model in detail.

2. Attempt *any four* of the following questions : (5x4=20)

- (a) (i) Briefly describe the purpose of file transfer protocol and list five important commands.
- (ii) What is the concept of world wide web and what is the role of URL ?
- (b) Define the following terms :
 - (i) ASP (Active Server Pages)
 - (ii) CGI (Common Gateway Interface)
 - (iii) VRML (Virtual Reality Modelling Language)
- (c) What is difference between SMTP and HTTP ? Describe salient features of Hypertext Transfer protocol.
- (d) Explain the term network security. What are the emerging client-server security threats ? Explain each of them.
- (e) (i) What is a firewall and how does it protect a site ?
- (ii) Briefly describe the various types of firewalls.
- (f) (i) What are major threats posed by a sniffing attack ?
- (ii) What are the vulnerabilities of a web server ?

3. Attempt *any two* of the following questions : (10x2=20)

- (a) (i) Describe the symmetric key cryptosystem. What are the important issues related to key distribution and management ?
- (ii) What is a public key cryptosystem ? Make comparative study of symmetric and public key encryption systems.
- (b) (i) Describe a technique used for the non-repudiation of an e-commerce transaction.
- (ii) What is a low encryption attack on the RSA algorithm ?
- (iii) Briefly describe the secure electronic transaction (SET) protocol.
- (c) (i) What is the general description of DES algorithm ? How much stronger is 128-bit key than 56 or 64-bit DES key ?
- (ii) Explain the following :
VPN, SSL, E-mail spoofing.

4. Attempt *any two* of the following questions : (10x2=20)

- (a) (i) Discuss the basic requirements of an online payment system.
- (ii) What are micro payments ? What are the special considerations involved in the design of an online micro payment system ?
- (b) (i) What are prepaid electronic payment systems? Explain transaction flow in e-Cash and Net Bill systems.
- (ii) What is meant by debit card and credit card based EPS ?

- (c) (i) Define interoperability in the context of online payment system.
- (ii) What are the various security issues in the context of online payment systems ?
- (iii) Describe an online payment transaction in the Mondex Smart Card System.

5. Attempt *any two* of the following questions : (10x2=20)

- (a) (i) Define EDI. Specify four layers EDI architecture in detail.
- (ii) Why can the relationship between EDI and e-mail be ambiguous as e-mail systems become very sophisticated ?
- (b) (i) Why is EDI a key element in a JIT (Just-In-Time) environment ?
- (ii) What are tangible benefits of EDI ? Explain each of them.
- (c) (i) What are security and privacy issues regarding EDI ?
- (ii) Explain the following terms :
 1. SCM
 2. CRM
 3. VANs

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