

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.TECH(CSE)/SEM-8/CS-801E/2010**

**2010**

**E-COMMERCE AND ERP**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) Symmetric encryption involves
  - a) Public key
  - b) Private key
  - c) both of these
  - d) none of these.
- ii) Some modules of ERP packages are
  - a) Finance
  - b) Sales & Distribution
  - c) Quality Management
  - d) none of these.

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- iii) There are ..... types of Business Transaction models.
- a) one
  - b) two
  - c) three
  - d) four.
- iv) Which one of the following is a protocol for secure messaging ?
- a) PGP
  - b) PEM
  - c) S/MIME
  - d) All of these.
- v) Gov. com is an example of
- a) B2B
  - b) B2C
  - c) B2G
  - d) C2B.
- vi) Investment management is a sub-system of
- a) Sales & Distribution
  - b) Finance
  - c) Quality Management
  - d) None of these.
- vii) In RSA algorithm ..... numbers are involved.
- a) odd
  - b) even
  - c) prime
  - d) All of these.
- viii) The e-cash is generally stored in the customer's computer in the form of an
- a) e-chain
  - b) e-money
  - c) e-wallet
  - d) none of these.
- ix) E-business S/W is best defined to manage
- a) buyer applications
  - b) seller applications
  - c) all of these
  - d) none of these.
- x) ..... occurs when one business transmits computer-readable data in a standard format to another business.
- a) EFT
  - b) VAN
  - c) EDI
  - d) LAN.

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**GROUP - B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

2. Describe the impact of EDI on the Supply Chain Management of a manufacturing plant.
3. What is supplier centric B2B electronic commerce ?
4. What is meant by technological convergence ? What are its implications ?  $2 + 3$
5. Compare charge card with credit card.
6. Describe how RSA and DES algorithms can be used for EDI security.

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7.
  - a) Define firewall and state its functions in e-commerce.
  - b) What are digital signatures ? How do they differ from digital certificates ?
  - c) Given two prime numbers  $p = 17$ ,  $q = 29$ . Find out  $n$ ,  $e$ ,  $d$  in RSA encryption process.
  - d) "A proper BPR exercise helps in implementation." Comment.  $4 + ( 1 + 2 ) + 5 + 3$
8.
  - a) What is e-cash ? Explain in brief the steps involved in the operation of e-cash by an individual.
  - b) What are the security requirements for safe e-payments ?
  - c) Why is supply chain vital for e-commerce ?
  - d) Explain the role played by e-supply chain planning tools in managing supply chain of an e-business.  $( 1 + 3 ) + 3 + 3 + 5$

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9. a) What is ERP ? How is ERP and e-commerce related to each other ?
- b) What is Business Process Redesign ? Why is it necessary to do BPR before implementing ERP ?
- c) Define WAP. Explain its importance in e-commerce.
- d) What is ubiquity ? Define content. What is content partnership ? ( 1 + 2 ) + ( 2 + 3 ) + ( 2 + 2 ) + ( 1 + 1 + 1 )
10. a) What is key wrapping ? How is it useful ?
- b) Define EDI and discuss its various essential elements. Discuss EDIFACT standard.
- c) In today's world it is not practical to have
- i) an ERP system without e-commerce
  - ii) an e-commerce system without ERP.
- Comment on (i) and (ii)
- d) Explain how a supply chain portal works.
- ( 1 + 2 ) + ( 3 + 3 ) + 4 + 2
11. Write short notes on any *three* of the following : 3 × 5
- a) Software piracy
  - b) Call centre
  - c) SCE framework
  - d) Message Digest
  - e) Intrusion Detection System.