NE-806-A-B  Seat No.__________
Third Year B. C. A. Examination
April / May – 2003
BCA-306 :
1 : E-commerce
2 : Advanced Database Management System

Time : Hours] [Total Marks : 50

1 : E-commerce

1 Define : (any five) 10
(a) VPN
(b) Intelligent agent
(c) SSL
(d) Virtual community
(e) Firewall
(f) Cookies.

2 Answer the following : (any two) 10
(a) Discuss different web server feature sets.
(b) Define e-commerce. Explain different advantages and disadvantages of e-commerce.
(c) What is web hosting ? Compare web hosting over self-hosting.

3 Answer the following : 10
(a) What is smart card ? How does it differ from credit card ? Write in short the working of smart card payment system.
(b) What is branding ? Explain different types and elements of branding.

OR

3 Answer the following : 10
(a) Explain E-cash. Give advantages and disadvantages of E-cash.

NE-806-A-B] 1 [Contd....
(b) What are key elements of Technology enabled Relationship Management (TERM)? What advantages does TERM have over traditional seller-customer relationships.

4 Attempt any four:

(a) What is digital certificate? How does it provide security in e-commerce?
(b) Explain private key encryption.
(c) Explain cultural issues in e-commerce.
(d) Differentiate subject-matter jurisdiction and personal matter jurisdiction.
(e) Explain different web server threats.

5 Write short notes: (any two)

(a) ASP objects
(b) Web auctioning
(c) Internet connectivity options in India.

2: Advanced Database Management System

1 Attempt following: (any ten)

(i) Explain entity and attribute.
(ii) What is candidate key?
(iii) What is transaction log?
(iv) What is distributed processing?
(v) Explain Activex.
(vi) Explain object state.
(vii) Explain ODBC,
(viii) What is secondary key?
(ix) Explain Isolation property of transaction.
(x) Explain methods and messages.
(xi) List two well-defined web server interfaces.
(xii) Draw the diagram of data information decision cycle.
2 Write short notes on following: (any four) 10
   (i) DBMS functions-any five.
   (ii) Characteristics of relational table.
   (iii) Advantages of DDBMS.
   (iv) Server-side extension.
   (v) Late binding and early binding.
   (vi) Data dictionary and types of data dictionary.

3 (a) What is data integrity? Explain integrity rules with example. 5

   OR

   (a) What is concurrency control? Explain three main problems associated with it. 5

   (b) What is DDBMS? Explain components of DDBMS. 5

   OR

   (b) Explain intranet, extranet and firewall. 5

4 Attempt following: (any two) 10
   (i) Explain types of locks.
   (ii) Name and describe thirteen mandatory features of OODBMS.
   (iii) Explain managerial role of DBA.

5 Attempt following: (any two) 10
   Employee (emp-code, emp-name, emp-dob, store-code)
   Store (store-code, store-name, store-sales, region-code, emp-code)
   Region(region-code, region-description)
   (i) Write a PL/SQL block to satisfy the following condition.
       Accept region-code as input. If region-code is 1 then raise an exception to display corresponding region description.
(ii) Write a trigger to disallow any operation on store table on Sunday.

(iii) Write a procedure to accept store-code as parameter and increment its sales by 2500.

(iv) Write a function which accepts emp-code as a parameter and returns a day on which employee was born.