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.

(b) What are key elements of Technology enabled Relationship Management (TERM) ? What advantages does TERM have over traditional seller-cutomer relationships.

4 Attempt any **four** :   **10**

(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**)   **10**

(a) ASP objects

(b) Web auctioning

(c) Internet conectivity options in India.

2 : Advanced Database Management System

1 Attempt following : (any **ten**)   **10**

(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 dicision 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   **5**
          example.

<p align="center">OR</p>

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

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

<p align="center">OR</p>

    (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.

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