

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-customer 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 connectivity 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 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.
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