



## **B.C.A (Part III) Examination, 2007**

### **E-Commerce**

**Time allowed : three hours**

**Maximum marks : 50**

1. (a) What do you mean by an E-Commerce  
(b) Differentiate between traditional and Electronic business application
2. Explain what is encrypted documents and E-mail
3. write notes on:  
(i) Anatomy of E-Commerce;  
(ii) E-commerce framework
4. Explain any one encryption technique and describe method to decrypt it.
5. Explain role of firewall and network security
6. Explain architecture of E-Commerce. Explain consumer oriented application of E-Commerce
7. Discuss various types of Electronic payment system
8. Illustrate with example mobile computing technology and its application.
9. Write short notes on mercantile process model and merchant model
10. Write short notes on  
(i) Cryptography;  
(ii) WWW



## B.C.A (Part III Examination, 2007

### Computer networks and mobile

Time allowed : three hours

Maximum marks : 50

1. Briefly differentiate between ISO-OSI reference model and TCP-IP model. According to you which model is better and why?
2. (a) What is the relationship between data-rate and bandwidth of a signal. Explain it with an example.  
  
(b) Differentiate among packet switching, message switching and switching techniques.
3. Explain the basic difference in working of the following with suitable example:
  - (a) gateways and routers;
  - (b) intranet and internet.
4. Briefly differentiate between TDMA and FDMA techniques. A cable T.V system has 100 commercial channels; all of them have alternating programs with advertising. Is this like TDM or like FDM?
5. Briefly explain the AMPS, GMS and CDMA techniques in wireless mobile computing
6. Differentiate between the following:
  - (i) Uni-Cast and multi-cast communication;
  - (ii) TCP and Wireless TCP.
7. Explain the Following in IEEE 802.11 (Wireless LAN's) with suitable diagram and example:
  - (i) Bss (Basic Service Set);
  - (ii) ESS (External Service Set);
  - (iii) DCF (Distributed Coordination Function);
  - (iv) PCF (Point Coordination Function).
8. Write short notes on the following:
  - (i) Bluetooth Architecture
  - (ii) Cordless Telephone



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### **Internet and web technology**

**Time allowed : three hours**

**Maximum marks : 50**

1. Write a note on internet evolution. Write down the various advantages of internet uses.
2. (a) What is a search engine? Write down the name and working of any two most properly used search engines.  
(b) What is protocol? Write down and explain the name of protocol used for internet.
3. (a) What are cookies? Write down its advantages and disadvantages.  
(b) Write down and explain the name of protocols used for sending and receiving an e-mail.
4. Write down steps to create a simple web page. Also write the different between static and dynamic web page.
5. (a) Write down the request and response object methods.  
(b) Explain the exception handling for an ASP page.
6. (a) What do you understand by scripting language? Explain java script and VB script in brief.  
(b) What do mean by browser? How many types of browser are available?
7. Create a web page that accept the student detail like student name, father name, address, age and class. Send the details on server to store the data when user click on submit button. Place the validation for student name and class.
8. (a) Write down and explain the applet life cycle.  
(b) Create an applet to explain the parameter passing to applet with suitable example.
9. Write short notes on (any four)
  - a) HTTP
  - b) FTP
  - c) Local and remote applet application
  - d) Application object in ASP
  - e) Hyperlinks.



**B.C.A (Part III) Examination, 2007**  
**Relational database management system**

**Time allowed : three hours**

**Maximum marks : 50**

1. Create the following relations:
  - (a) Customer (Custid, custname)  
 Order (custid, custnsname, ordered, orderdate)  
 Item (custid, ordered, itemid, itemname, qty, rate, amt)  
 Note: Assumption can be handle (made), place suitable referential integrity constrains and other constrains such as not null, unique.  
 Note: Use coding standard and don't write wrong keyword, if so then there will be deduction of marks.  
 Write syntax for insert update and delete query with an example.
2.
  - (a). Write a PL/SQL block to illustrate the working of IF-THEN-ELSE. If a number is greater than the other then it swap the two numbers otherwise it doubles them.
  - (b) Write a PL/SQL code. Insert a new record in table emp after abstaining Values from the user.
  - (c) Write a PL/SQL block that obtain an empno from user if his/her salary less than 900/- then delete that record home table.
3. What is the package and how package can be created? Explain it with the help of an example (package should contain of last function and one procedure)
4.
  - (a) What is the trigger? Write the types of trigger and give example of BEFORE and AFTER trigger.
  - (b) Write a trigger that will execute when the duplicate value is entered in emp table and dietary on ever message "Duplicate value is not allowed".
5. How do we handle error in PL/SQL block
6. Explain the architecture of DBMS and its advantages and disadvantages
7. Why do we use procedure and function in PL/SQL. Demonstrate with example.



8. Write short notes on:
- (a) Set operation;
  - (b) Join operation;
  - (c) Query optimization;
  - (d) recovery technique.



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## Visual Basic Programming

Time allowed : three hours

Maximum marks : 50

1. Why the Visual Basic is treated as GUI programming language? Example the features and importance of Visual Basic.
2. Define the term project in visual basic. Explain all possible components of VB project
3. What do you understand by Event Driven Programming?

Write an event driven program to accept only names of student in a Text Box.

4. differentiate between :
  - (i) Text Box and Label;
  - (ii) List Box and Combo Box;
  - (iii) Check Box and Radio Button;
  - (iv) Scroll Bar and Slider;
  - (v) Picture Control and image Control.
5. (a) How do you access win 32 API from VB? Explain with example  
(b) What id MDI? Explain the utility of parent and child from.
6. What is an Array? Explain different types of Array and collection Used in Visual Basic with example. Also explain subroutines and functions.
7. (a) Write a program to display the content of text file in a multi line text box.  
(b) What are frames? Explain their used with examples.
8. How are external database accessed through Visual Basic? Write the complete Steps of accessing the database.

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## **Management information system**

**Time allowed : three hours**

**Maximum marks : 50**

1. **Why is MIS looked upon as a strategic need of management today.**
2. **Explain the importance of a database management system (DBMS) in MIS of an Organization. Elaborate the different models with suitable example**
3. (a) **Define decision support system (DDS). Explain in detail.**  
(b) **Explain the contribution of information system at various levels of management.**
4. (a) **Explain difference between system software and application software.**  
(b) **What do we mean by “user view of database”?**
5. **What is system analysis and design? Why is it so important in the development of information system?**
6. **Write short notes on any two of the following:**  
(a) **Prototype approach to develop an MIS;**  
(b) **End user computing**  
(c) **Decision-making process.**
7. (a) **How is a database different from a conventional file system?**  
(b) **What is distributed data processing? Explain.**
8. **What is system approach to problem solving? Different between open and close system**