

BCA (Part III) Examination, 2014

E-COMMERCE

1. Why security in E-commerce is important? What are the security issues to be taken into account while designing security system in E-commerce?
2. What do you understand by EDI? Why is it important in E-commerce?
3. What is public key encryption? In what ways it is different from private key encryption? Why is it important in E-commerce?
4. Define E-commerce. Explain benefits and limitations of E-commerce.
5. Describe methods of protections in E-commerce.
6. State the advantages of firewall and explain different methods for implementing firewall.
7. Explain layer architecture of E-commerce.
8. Write short notes on the following:
 - (a) www
 - (b) Digital Signature
 - (c) Mobile Computing
 - (d) Digital Library
9. Explain Mercantile model from Merchant's perspective. How is it different from consumer's perspective.
10. Explain different types of E-commerce business model with suitable model.

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COMPUTER NETWORKS AND MOBILE COMPUTING

1. What is protocol? Explain OSI model in Detail.
2. Write notes on:
 - (a) Network Topology
 - (b) Types of network
3. Discuss various types of network components.
4. Explain CSMA/CD protocol for MAC, with the help of flow chart.
5. What is land mobile and satellite communication? Give difference between land mobile and inbuilding communication.
6. Explain cellular architecture of mobile communication.
7. Discuss in detail about IEEE 802.11 and its architecture.
8. Write notes on:
 - (a) Mobile IP
 - (b) Cordless telephony
9. What are the routing metrics in wireless adhoc network? Explain MAC layer Bluetooth system.
10. Write notes on:
 - (a) Data Transmission Technique
 - (b) Wireless TCP

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VISUAL BASIC PROGRAMMING

1. Write short Notes on:
 - (a) Check Box
 - (b) Testing and Debugging
 - (c) Branching
 - (d) Keyboard Events
2. Use an image control with bmp file from window. Set the stretch property to true use a scroll bar to change the size of image.
3. Explain in detail the use of database programming in visual basic with example.
4. Write a VB code to create a form that displays a popup menus when the right mouse button is clicked anywhere over the form.
5. Write down the difference on any two:
 - (a) SDI and MDI form.
 - (b) Image Box and Picture Box
 - (c) Data Control and Data Aware Control
 - (d) Standard and Class Modules.
6. What are the three different ways to access files in VB? Explain each with suitable example.
7. Visual basic has different type of projects. What are the usages of each type of projects? Explain with the help of suitable example.
8. What is an array? Write a program to sort a one-dimensional array using VB code.
9. Explain following drawing method of visual basic with suitable example:
 - (a) Line
 - (b) Circle

10. Explain any two of the following:

(a) Form Method

(b) BorderStyle Property

(c) Data types in VB

(d) Manipulating colors and pixels

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INTERNET TOOLS AND WEBSITE DEVELOPMENT

1. (a) What is Internet? Explain architecture of Internet.
(c) What is DNS?
2. (a) What is URL? Explain components of URL.
(b) Explain the security issue over www.
3. What is ISP? Explain various types of Internet connections.
4. Explain static, dynamic and active web page with features.
5. Explain simple mail transfer protocol and hyper text transfer protocol with their purpose.
6. (a) What is search engine?
(b) Explain the concept of e-mail.
7. What is applet? Explain applet life cycle.
8. Explain the exception handling in JavaScript page.
9. Explain data type conversion functions and methods.
10. Write short note on:
 - (a) JavaScript reserved words
 - (b) Primitive data type
 - (c) Request Object Method
 - (d) Telnet

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MANAGEMENT INFORMATION SYSTEM

1. What do you understand by Management Information System (MIS)? Define its purpose and role in business information.
2. List and explain different types of information system.
3. Explain the business model which implement MIS.
4. Give a wide description of information system architecture.
5. Explain the various stages of developing computerized system.
6. What are the characteristics of transaction processing systems? What role do they play in a business.
7. Describe alternative ways of organizing the information systems functions in a business.
8. Describe the relationship between TPS, MIS, DSS and ESS.
9. Explain the various stages of system development life cycle (SDLC)
10. Describe the various approaches in MIS.

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RELATIONAL DATABASE MANAGEMENT SYSTEM

1. Explain the rules that a distributed database should follow.
2. (a) Explain the components of distributed database.
(c) Write the advantages of distributed database over centralized database.
3. (a) Explain the different types of failure that can occur in distributed database.
(b) What are the recovery techniques that are followed to recover.
4. (a) Explain the steps in query processing?
(b) What are the different measures of query cost?
5. (a) Explain the data mining techniques? Write the advantages of classification.
(b) Write short note on temporal databases.
6. (a) What is a view? How can it be created? Explain the types of views and describe its advantages over tables.
(b) Explain aggregate functions with example.
7. (a) Explain the types of constraints using suitable example. Give the condition when the constraints are implemented as table level only.
(b) Explain using example how constraints are defined in Alter table command.
8. (a) What are cursors? Explain the attributes of cursor.
(b) Create a cursor asking user to enter deptno and designation of the employees and increase the salary of those employees by 20%. Insert the empno, actual raise and date when the raise was given in emp-raise table. Write a PL/SQL block to carry out the above task.
9. (a) Write down the utility of database triggers. How triggers are different from procedures in Oracle? Explain the types of triggers.
(b) Write syntax for creating triggers.
10. (a) Write down the important features of PL/SQL.

(b) Write a PL/SQL code block to calculate the area of a circle varying from 1 to 10. Store the radius and corresponding values of calculated area in a table named "Areas".