

BCA (Part III) Examination, 2013

E-Commerce

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. What is e-commerce? Describe the use of e-commerce in real world.
2. Explain mobile computing devices and its applications in detail.
3. How is security enforced in e-commerce transactions? Explain.
4. Write short notes on document management and digital libraries.
5. What do you mean by electronic and media convergence? Explain.
6. How EDI provides better support to the business? How many layers are in EDI? Explain.
7. What do you mean by e-payment system? Explain different types of e-payment systems.
8. What is process model? Explain Mercantile Process Model in detail.
9. What is Consumer Process Model? Explain.
10. Explain the following:
 - (a) www architecture
 - (b) Anatomy of e-commerce
 - (c) Digital check
 - (d) Thread security

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Computer Networks & Mobile Computing

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. Explain function of each layer of OSI model.
2. Discuss various types of network topologies.
3. Write technical note on:
 - (a) Bridges
 - (b) Routers
4. Explain CDMA technique in detail.
5. Define and compare land mobile and satellite communication.
6. Discuss with the help of suitable diagram the wireless architecture of mobile computing.
7. Explain CSMA/CD protocol for MAC, with the help of flow chart.
8. Write notes on:
 - (a) Mobile IP
 - (b) Wireless TCP
9. Explain digital enhanced cordless telecommunication.
10. Write notes on:
 - (a) Hand of adhoc network
 - (b) Blue tooth

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Visual Basic Programming

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. Explain various data types, memory occupation in bytes and default values the variables will have upon their declaration in visual basic.
2. Explain IDE and its benefits in Visual Basic.
3. Explain the various decision making and iterative statements used in Visual Basic along with suitable examples.
4. Explain the following properties (purpose, possible values, default value, and controls) with which they are associated.
 - (a) MultiSelect
 - (b) StartUpPosition
 - (c) Default
 - (d) Maxlength
 - (e) LargeChange
5. Describe the mouse and keyboard events in Visual Basic.
6. What is an array? What do you understand by dynamic array in visual basic and what are its advantages?
7. Differentiate between:
 - (a) InputBox and MsgBox
 - (b) PictureBox and Image
 - (c) TextBox, ListBox and ComboBox
 - (d) SDI and MDI applications
 - (e) FileListBox, DirListBox and DriveListBox
8. Explain the difference between sub and function procedure definition and calling them.
9. Write complete syntax and their use of the following functions in visual basic:
 - (a) DateDiff
 - (b) CInt
 - (c) RGB
 - (d) Len
 - (e) PopupMenu
10. Explain any five database related functions of data control.

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Internet Tools & Website Development

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. What type of hardware and software requirement for Internet? Also explain characteristics of Internet.
2. Explain various type of connectivity to the Internet with their advantage and disadvantages.
3. Explain www(world wide web) and its evaluation. Also give feature of www.
4. Write short note on:
 - (a) SNMP
 - (b) SMTP
 - (c) POP
 - (d) GOPHER
5. Explain various network threats.
6. Explain Javascript programming structure with suitable example.
7. Explain various conversion functions of Javascript with example.
8. Write a Javascript program to take input of two number and a operator, and print result according to the given operator.
9. Explain various events provided by Javascript.
10. What is ASP? Explain the exception handling in ASP.

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Management Information System

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. What do you understand by the word "Information"? Explain why information systems are so essential in business today.
2. What is a transaction processing system? How is it related to the decision support system?
3. Discuss the meaning elements and characteristics of MIS. How is it related to TPS and DSS?
4. Describe the alternative ways of organizing the information system function in business.
5. Discuss the hardware requirements for IT infrastructure in the current era of enterprise intranet.
6. Discuss the role of databases as the foundation of business intelligence.
7. Discuss the roll and importance of communication networks in organizational information interchange.
8. Describe the various phases of system development life cycle (SDLC).
9. List the benefits of MIS for a multinational corporation.
10. Describe the decision making model stages of intelligence design and choice. How information impacts each of these stages.

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Relational Database Management System

Note: Attempt any five questions out of ten questions. All questions carry equal marks.

1. Explain the architecture of distributed processing system.
- 2.(i) What is distributed DBMS? Explain why replication of data is useful in distributed DBMS. (6)
(ii) Explain how a DBMS can be secured. (4)
3. What is need of concurrency control in transaction? Explain time stamp ordering protocol for concurrency control.
4. Explain:
(a) Query Optimization
(b) Deadlock detection
5. What is the need of recovery in RDBMS? Explain the various recovery techniques.
6. Write short note on:
(a) Data Mining and Data Warehousing
(b) Serializability
7. Explain all of the following type with SQL example:
(a) DROP Index
(b) DROP Trigger
(c) DROP Procedure
(d) DROP Clause
(e) TRUNCATE Table
- 8.(i) Write the SQL command for grant and revoke. Also explain the role of stored procedure in DBMS. (4)
(ii) Explain with SQL example: (6)
(a) Cursor
(b) Package
(c) Views
- 9.(i) Discuss the error handling in PL/SQL.
(ii) Write short note on package procedure.
10. Write short note on:
(a) BEFORE vs AFTER trigger combination.
(b) Trigger vs Declarative Integrity Constraints.