



BCA (Part III) EXAMINATION, 2009
E-COMMERCE

Time allowed: Three Hours
Maximum Marks: 50

*Attempt any **five** questions. All questions carry equal marks.*

1. What is electronic commerce? Explain advantages and disadvantages of E-commerce.
2. Explain the role of mobile computing in E-commerce.
3. Detail out different security issues arise in E-commerce?
4. What is EDI? Explain the different modes of EDI.
5. Write a note on web based E-commerce.
6. What role is played by digital libraries in EDI?
7. What is E-payment system? What are different modes of E-payment?
8. Write short notes on any two:
 - (a) Firewalls
 - (b) E-mail
 - (c) Encryption
 - (d) E-cash
9. Explain various E-services available in present scenario.
10. Explain mercantile model from merchant's perspective.



BCA (Part III) EXAMINATION, 2009
INTERNET AND WEB TECHNOLOGY

Time allowed: Three Hours

Maximum Marks: 50

Attempt any five questions.

1. (a) What are hardware and software requirements for Internet? 6
(b) What is web home page? Explain. 4
2. Write in short for the following:
(a) Web browser
(b) Search engines 2x5
3. (a) What is URL? Give examples of URL's that (i) contain a host name and (ii) do not specify a host name. Which part of URL is case sensitive? Describe how browser can be used to access gopher. 6
(b) What is dynamic web page? Explain. 4
4. (a) What are protocols? What do they do? What allows any size computer to be able to send and receive data through the Internet? 5
(b) Explain HTTP and FTP. 5
5. (a) Describe the services provided by TELNET protocol. What are TELNET commands that control the remote side? Also discuss TELNET options. 6
(b) What do you understand by the term collection? Explain. 4
6. Explain the following:
(i) Active server page
(ii) Exception handling. 2x5
7. Explain various internet security methods. 10
8. (a) What is java script? Are semicolons (;) required at the end of all java script statements? Describe how java script deals with HTML forms. How form elements can be manipulated with java script? How can one obtain input from the user his java script application? Explain. 6
(b) What is applet? Explain. 4
9. (a) Explain applet life cycle. 5
(b) Write down various operators available in java script. 5
10. Write short notes on any two of the following:
(i) Local and remote applet applications
(ii) Control structures and statement objects
(iii) Creating and passing parameters to applets. 2x5



BCA (Part III) EXAMINATION, 2009
MANAGEMENT INFORMATION SYSTEM

Time allowed: Three Hours

Maximum Marks: 50

*Attempt any **five** questions. All questions carry equal marks.*

1. Define management information system. Discuss the elements of management information system. How would you relate it to organisational triangle and decision making at various levels of organisational hierarchy?
2. Discuss in detail the MIS planning. Describe the "end user information requirement and its integration with operational islands" in the organisation. Hence discuss the role and position of a systems manager.
3. What are the advantages of database approach over filing system? Discuss the role of distributed data processing and its importance in modern multinational corporation.
4. Describe in detail the system development life cycle (SDLC).
5. Describe the main elements of a communication system. Discuss the fixed costs of implementing such system and the running costs. Hence describe the cost benefit analysis report for such a system.
6. Write short notes on any two of the following:
 - (i) Data definition language
 - (ii) OORDBMS-object oriented relational database management system.
 - (iii) Data manipulation language
 - (iv) Decision support system (DSS)
7. What are the main stages of decision making process? How would information provide support to each stage?
8. What are the key characteristics of good information? Elaborate the statement "right information at right place in right format and on right time."
9. What kind of education and training is needed for implementing MIS? Discuss management's role in planning and implementing information systems.



BCA (Part III) EXAMINATION, 2009

MOBILE COMPUTING

Time allowed: Three Hours

Maximum Marks: 50

*Attempt any **five** questions. All questions carry equal marks.*

1. What do you understand by protocols and protocol stack? How are protocols combined in a stack? Explain. 2+2+6
2. What do you mean by inter-networking devices? Explain the working of two inter-networking devices. 2+4+4
3. Write short notes on the following:
 - (a) Signal regenerating devices 4
 - (b) Active Hub 3
 - (c) Passive Hub 3
4. How does an Ethernet LAN work? Describe various implementations of Ethernet LAN. 4+6
5. Define DECT. Explain its working with cordless telephones. 3+7
6. What is orbit? Describe the types of satellite orbits. Also write the application where satellites are used. 1+4+5
7. What is wireless LAN? Define the services and standards of IEEE 802.11 family. 2+4+4
8. Differentiate the terms unicast, broadcast and multicast. 10
9. What is land mobile? How is a PLMN different from a PSTN? Describe. 4+6



BCA (Part III) EXAMINATION, 2009
RELATIONAL DATABASE MANAGEMENT SYSTEM

Time allowed: Three Hours

Maximum Marks: 50

*Attempt any **five** questions. All questions carry equal marks.*

1. (a) Explain the architecture of distributed processing system.
(b) Describe how to incrementally maintain the results of the following operations, on both insertions and deletions:
 - (i) Union and set difference
 - (ii) Left outer join
2. (a) Consider a file system such as the one on your favourite operating system.
 - (i) What are the steps involved in creation and deletion files, and in writing data to a file?
 - (ii) Explain how the issues of atomicity and durability are relevant to the creation and deletion of files, and to writing data to files?(b) Explain the distinction between the terms serial schedule and serializable schedule?
3. What is recoverable schedule? Why is recoverability of schedule desirable? Are there any circumstances under which it would be desirable to allow non-recoverable schedules? Explain your answer.
4. (a) When a transaction is rolled back under timestamp ordering, it is assigned a new timestamp. Why can it not simply keep its old timestamp?
(b) Under what conditions is it less expensive to avoid deadlock than to allow deadlocks to occur and then to detect them?
5. (a) Discuss the relative advantages of centralized and distributed databases.
(b) When is it useful to have replication or fragmentation of data? Explain your answer.
6. (a) What is the difference between WHERE and HAVING clause?
(b) What is the difference between SELECT INTO and CREATE VIEW commands?
(c) What is the difference between column constraints and table constraints?
7. Write a SQL statement to list all the employees in the following format:

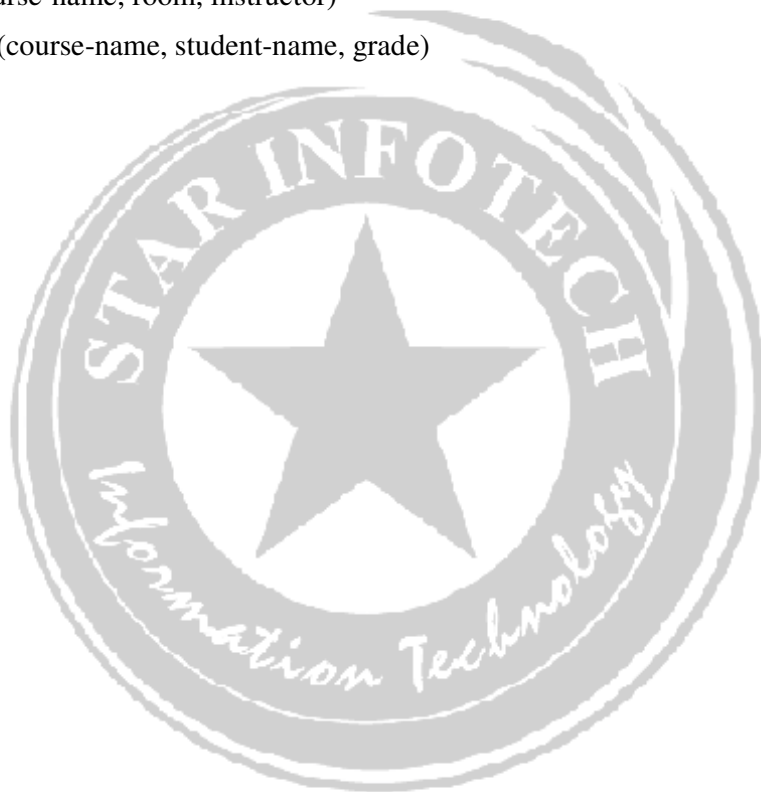


employee (name, department, deptno)

- (i) List the information which is sorted on emp. name.
- (ii) Find all those employees whose job does not start with 'M'.
- (iii) Display all employees who were hires during 1995.

8. Give a network data structure diagram for the following relational database:

- (a) lives (person-name, street, city)
works (person-name, company-name, salary)
location-in (company-name, city)
manages (person-name, manager-name)
- (b) course (course-name, room, instructor)
enrolment (course-name, student-name, grade)





BCA (Part III) EXAMINATION, 2009

VISUAL BASIC

Time allowed: Three Hours

Maximum Marks: 50

Attempt any five questions. All questions carry equal marks.

1. (a) What are the various parts of the design state of the VB IDE? Explain.
(b) Write down the various features of VB. 5+5=10
2. (a) What is object oriented programming? What are its characteristics? Explain.
(b) What is meant by event driven programming? How does it differ from traditional programming? 5+5=10
3. (a) Name and give the purpose of five types of data available in VB. What effect does the location of DIM statement have on the variable it declares.
(b) Describe how you attach code to an object. 5+5=10
4. (a) What does the term "Common dialog box" mean? Name at least three types of common dialog boxes.
(b) Explain the difference between a procedure and a function procedure. 5+5=10
5. (a) Name and describe three styles of combo boxes. 5
(b) When and how is information placed inside a list box or a combo box. 5
6. (a) What are different control statements available in VB? Explain them by taking an example of each. 5
(b) What do you understand by the scope of a variable? Illustrate with example. 5
7. (a) What are dynamic forms? How can you build a dynamic form? Illustrate with example. 5
(b) Explain various drag and drop operations. 5
8. Write a program to update database with the help of VB form. The form contains the name of employee, his/her date of birth, total pay, total deduction and his/her home address. 10
9. Explain the following in brief:
 - (i) Customizing the toolbars.
 - (ii) Generating timed events. 2x5=10



10 Write short notes on any two of the following :

- (i) Drawing methods in VB using graphics control.
- (ii) Coordinate systems and graphic methods.
- (iii) Colors and Pixels.

2x5=10

