

10. (a) Explain :

- (i) Distributed databases and
- (ii) Centralized databases with suitable examples.

Or

(b) Compare distributed databases with that of centralized databases in detail.

11. (a) Write an essay on various types of fragmentation.

Or

(b) Discuss in detail the architecture of DDB with objectives.

12. (a) Write an essay on the importance of query optimization with suitable examples.

Or

(b) Discuss the reduction of relations using the semi-join operation with suitable example.

13. (a) Explain any two facilities to implement a distributed transaction using CICS/ISC.

Or

(b) Discuss the read and execute phase of SDD-1.

**1707/S31**

**MAY 2008**

## DISTRIBUTED DATABASE DESIGN

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(For those who joined in July 2002 and after)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — ( $8 \times 5 = 40$  marks)

1. (a) Explain the advantages of centralized control of data.

Or

(b) Write a note on the relational model of database system.

2. (a) Explain any two operations of relational algebra.

Or

(b) Write a note on the need for distributed database systems.

3. (a) Explain :

(i) Local optimization and

(ii) Global optimization in relation to design of optimizer.

Or

(b) Explain the distribution transparency for read-only application with example.

4. (a) What are the rules governing the definition of fragments? Explain.

Or

(b) Explain fragmentation tree with example.

5. (a) List the transmission requirements in terms of costs and delays.

Or

(b) Explain the process of using semi-join programs for join queries with suitable examples.

6. (a) Explain expression of a fragment query.

Or

(b) Explain the properties of transactions with suitable examples.

7. (a) Explain the profiles of the relational algebra operation selection.

Or

(b) Explain the reasons for replacing operating systems with CICS.

8. (a) Explain IBM's inter system communication.

Or

(b) Explain guaranteed deliver layer.

PART B — (5 × 12 = 60 marks)

9. (a) Explain the following with suitable examples :

(i) Network model

(ii) Hierarchical model.

Or

(b) Explain the operations :

(i) Selection

(ii) Projection

(iii) Union

(iv) Difference

(v) Join and

(vi) Natural join operations with suitable examples.

12. (a) Explain Java Script Event Handlers with examples.

Or

(b) Write note on :

- (i) Data types .
- (ii) Name space and variable declaration.
- (iii) Scalar variables and
- (iv) Arrays in PERL.

13. (a) Explain the following in VB Script :

- (i) Different types of procedures.
- (ii) msg Box function

Or

(b) Write note on :

- (i) Ole Control and
- (ii) Activex Control in VB Script.

**1708/S32**

**MAY 2008**

### INTERNET AND JAVA PROGRAMMING

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(For those who joined in July 2002 and after)

Time : Three hours

Maximum : 100 marks

PART A — ( $8 \times 5 = 40$  marks)

Answer ALL questions.

1. (a) Discuss DNS in detail.

Or

(b) Describe SMTP in detail.

2. (a) Explain Network file system with suitable diagram.

Or

(b) Write note on WAIS.

3. (a) Explain data types in JAVA with suitable example.

Or

(b) Write a JAVA Program to sort an array of integers in ascending order.

4. (a) Explain exception handling with example.

Or

- (b) Explain multithreading in JAVA.

5. (a) Discuss the life cycle of Applet Class with example.

Or

- (b) Write a JAVA program for client and server using datagram.

6. (a) List any ten operators in Java Script.

Or

- (b) Write a note on GCI.

7. (a) Explain the data types – Long and Object in VB Script.

Or

- (b) Write a note on regular expressions in PERL with example.

8. (a) Write note on the arrays in VB Script.

Or

- (b) Discuss input Box function in VB Script with example.

PART B — (5 × 12 = 60 marks)

Answer ALL questions.

9. (a) Discuss the layers of OSI model.

Or

- (b) Discuss <INPUT> tag with its various attributes with examples.

10. (a) Explain the following with example :

(i) Data types in JAVA.

(ii) Variables in JAVA.

Or

- (b) Discuss the states and methods of threads with examples.

11. (a) Discuss applet life cycle with state diagram.

Or

- (b) Discuss the methods to draw.

(i) Circles.

(ii) Arcs and

(iii) Polygon in graphics class.

13. (a) Write an essay on the Presentation Layer Design issues.

Or

(b) Explain various messages Formats of E-mail.

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**1709/S33**

**MAY 2008**

## COMPUTER NETWORKS

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(For those who joined in July 2002 and after)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (8 × 5 = 40 marks)

1. (a) Explain Benefits and pitfalls of local Networks.

Or

(b) Write note on Fibre Optics Transmission.

2. (a) Briefly explain communication satellites.

Or

(b) Write note on Public Networks.

3. (a) Explain fibre optics with advantages and disadvantages.

Or

(b) Discuss error detecting code with example.

4. (a) Write a note on circuit switching.

Or

(b) Explain the services provided by the data link layer to the network layer.

5. (a) Compare virtual circuit and datagram subnets.

Or

(b) Explain the nature of errors in data transmission.

6. (a) Explain IP Address with suitable example.

Or

(b) Write note on Bridges.

7. (a) Explain downward multiplexing.

Or

(b) Discuss TCP connection management.

8. (a) Explain a data compression technique.

Or

(b) Explain URL with suitable examples.

PART B — (5 × 12 = 60 marks)

9. (a) Tabulate the functions of the seven layers of OSI Model.

Or

(b) Explain in detail the narrowband ISDN.

10. (a) Explain any two sliding window protocol.

Or

(b) Explain Fibre Optic Networks with a neat diagram and two examples.

11. (a) Explain how flow control and choke packets are used to eliminate congestions.

Or

(b) Write note on

(i) Centralised routing and

(ii) Optimal routing.

12. (a) Discuss the following elements of transport protocols :

(i) Releasing a connection

(ii) Flow control and Buffering

Or

(b) Write an essay on the Session Layer design issues.



13. (a) Write short notes on

(i) Displaying Bitmaps.

(ii) Text and Fonts.

Or

(b) Write short notes on mouse, keyboard properties and events.

**1710/E31**

**MAY 2008**

**VISUAL PROGRAMMING CONCEPTS IN VISUAL  
C++**

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(For those who joined in July 2002 and after)

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

PART A — (8 × 5 = 40 marks)

1. (a) Write about windows properties.

Or

(b) What are the control menus of windows?

2. (a) What is Hungarian Notation?

Or

(b) Write short notes on Message Handling.

3. (a) Explain with an program that will draw horizontal or vertical line in window.

Or

(b) What are the different kinds of DC methods present in SDIC programming?

4. (a) Write short notes on Message Mapping.

Or

(b) How will you create a simple window in VC++?

5. (a) Explain how to get a slider control in a window.

Or

(b) Write short notes on serialization.

6. (a) Explain how to display the current date and time in the status bar.

Or

(b) Explain about keyboard input.

7. (a) What are the features of using wizard?

Or

(b) Write short notes on

(i) Picture File

(ii) Bitmap.

8. (a) How to create a class using wizard?

Or

(b) Write short notes on menus in wizard.

PART B — (5 × 12 = 60 marks)

9. (a) Write short notes on graphics in windows.

Or

(b) Discuss the various ways of presenting messages in windows.

10. (a) Explain the parameters of winmain() function.

Or

(b) Explain in detail about DC methods.

11. (a) Explain about keyboard message handlers.

Or

(b) How to find out whether the mouse is attached to an application or not? Explain.

12. (a) Write short notes on MDI.

Or

(b) Explain how to add two toolbars in a window.



12. (a) Discuss about UNIX servers, Windows and Windows NT server.

Or

(b) Discuss on working with windows HTTPD.

13. (a) Explain the purpose of HTML in detail.

Or

(b) Explain in detail about the various List Specification formatting in HTML.

**1711/E32**

**MAY 2008**

**E-COMMERCE**

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(For those who joined in July 2002 and after)

Time : Three hours

Maximum : 100 marks

PART A — (8 × 5 = 40 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) What are the elements of electronic commerce applications? Explain.

Or

(b) Who's on the Web? Explain.

2. (a) Write the history about the Web.

Or

(b) Explain any one kinds of encryption methods.

3. (a) What is gaining from Internet access? Explain.

Or

(b) Write short notes on Hypertext.

4. (a) Explain what are the minimum software and hardware that needs to access the web for the computer system.

Or

(b) Write a note on Serial Line Interface Protocol (SLIP).

5. (a) Explain the usage of Web Server.

Or

(b) Explain the process of registering a domain name.

6. (a) What are the advantages of HTML?

Or

(b) Explain about the paragraph formatting in HTML.

7. (a) Briefly explain about the Home Pages.

Or

(b) Explain with the specification of preformatted text.

8. (a) Specify the different types of Input tags and explain.

Or

(b) How to specify Hidden controls in HTML form? Explain.

PART B — (5 × 12 = 60 marks)

Answer ALL questions.

All questions carry equal marks.

9. (a) Explain in detail about the Global Information Distribution Networks.

Or

(b) Explain any five Internet and Web Technology applications.

10. (a) How does a user connect to the Internet? Explain detail.

Or

(b) Write in detail about the Architectural framework for Electronic Commerce.

11. (a) Discuss in detail about Internet Service Provider (ISP).

Or

(b) Explain in detail about the usage of Modems and the Web.