

Reg. No. :

D 149

Q.P. Code : [07 DIT 08]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Third Year

Part III — Information Technology

PRINCIPLES OF DATA COMMUNICATIONS AND NETWORKS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Explain with examples, the various techniques used for transmission error detection and correction.
2. Explain the various guided media used for data transmission.
3. Explain the various types of Network topologies and switching methodologies.
4. Explain the functions of layers in OSI reference model.

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5. Discuss in detail on ISDN.
6. Explain the various internetworking devices and their functions.
7. Discuss in detail on domain name system.
8. Explain in detail on Electronic Mail.

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Q.P. Code : [07 DIT 09]

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B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Third Year

Part III — Information Technology

**RELATIONAL DATABASE MANAGEMENT SYSTEM
AND ORACLE**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Design a suitable structure for the following data by using the normalization procedure.
Customer name, address, bank name, cust-id
branch name, A/c no, balance, transaction type,
transaction date, transaction amount,
branch-code.
2. Discuss the create table command with all features. How constraints are specified? What are their effects? Explain with examples.

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3. Explain the following with examples :
 - (a) Union compatible operators
 - (b) Nested query
 - (c) Aggregate functions.
4. (a) Explain the transaction control commands with example. (8)
(b) Create a cursor to read the records from the employee table and to display them one by one. Assume the attributes.
5. What is a procedure? What is a function? Bring out the differences. Explain with examples.
6. (a) Discuss the components of a database system. (10)
(b) Discuss the SQL * Plus commands with examples.
7. (a) What is denormalization? Explain. (10)
(b) Explain the data types of oracle. (10)
8. Discuss :
 - (a) Database administrator
 - (b) Oracle architecture
 - (c) Control structures of PL/SQL.

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Q.P. Code : [07 DIT 10]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Sixth Semester

Third year

Part III — Information Technology

VISUAL PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Explain the elements of the form and its properties. (14)
- (b) Write a Visual basic program to read any two number and add it, (6)
2. (a) Explain the usage of the file and edit menu. (10)
- (b) Write a Visual basic program to read any five numbers and display them in ascending order. (10)

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3. (a) Explain the data types in Visual Basic. (12)
- (b) Explain the input and message box. (8)
4. (a) Explain any three built-in functions with examples. (9)
- (b) Explain the subroutines and functions with an example. (11)
5. (a) Explain the List and Combo Boxes controls with an example. (15)
- (b) What is a Grid? Explain its properties. (5)
6. (a) How to creating button using picture box? Explain. (6)
- (b) Write a visual basic program to create a calculator using control array. (14)
7. (a) Explain the following control
 - (i) Option buttons
 - (ii) Check box
 - (iii) Text box
 - (iv) Label
- (b) Explain the MDI forms. (10)

8. (a) Explain the data base development with DAO. (15)
- (b) What are Record sets? Explain the types of Record sets. (5)

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Q.P. Code : [07 DIT II]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Third Year

Part III — Information Technology

WEB TECHNOLOGY

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Explain the layered architecture of OSI model.
2. Discuss the various issues with regard to internetworking.
3. Explain the concepts of IP address and IP datagram.
4. Describe the concept of UDP.
5. Explain the working of E-mail sending protocols.

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6. Discuss any ten HTML tags with examples.
 7. Explain and compare the characteristics of various tier-based Internet architectures.
 8. Discuss the significance of XML.
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