

Reg. No. :

D 1527

Q.P. Code : [07 DSC 09]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Third Year

Part III — Computer Science

RDBMS AND ORACLE

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Explain briefly about relational data model.
(b) Explain briefly about relational languages.
2. Explain the various levels of normalization with examples.
3. Explain the various data manipulation commands in oracle with examples.
4. Explain the join and set operations in oracle.
5. Discuss in detail about control structure and embedded SQL with examples.

6. Explain the following:
 - (a) PL/SQL cursors
 - (b) Exceptions.
 7. Explain the various operations on tables with examples.
 8. Describe in detail about function and procedures in PL/SQL.
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Reg. No. :

D 1528

Q.P. Code : [07 DSC 10]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Third Year

Part III — Computer Science

VISUAL PROGRAMMING – VISUAL BASIC

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

1. (a) Explain all the data types in VB. (12)
- (b) How to open save run and close projects in VB? Explain. (8)
2. (a) Explain any three mathematical library functions in VB. (6)
- (b) Write a VB program to calculate sum of n odd numbers. (10)
- (c) How to assign values to variables? Explain. (4)

3. (a) How control tools are categorised? Explain any five control tools. (12)
- (b) Write a VB program to select any qualification from the given degree and display it. Add clear button to clear the contents. (8)
4. Write short notes on:
- (a) Accessing menu from keyboard
- (b) Menu enhancements
- (c) Sub menu
- (d) Popup menu. (20)
5. (a) Explain the combo box with an example. (10)
- (b) Explain the MsgBox and input box function. (10)
6. (a) Explain the event procedures and function procedures. (12)
- (b) Explain the array related functions. (8)
7. (a) How to create a control array at Runtime? Explain. (10)
- (b) How to pass arrays to procedures? Explain. (10)
8. (a) How to read, write and delete records in a sequential file? Explain. (12)
- (b) How to process a data file? Explain. (8)

Reg. No. :

D 1529

Q.P. Code : [07 DSC 11]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Third Year

Part III — Computer Science

SOFTWARE TESTING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Write notes on:
 - (a) Waterfall model (6)
 - (b) Spiral model (6)
 - (c) V model (8)
2. Summarize the procedure of static testing. (20)
3. Explain the following black box testing procedures.
 - (a) Positive and negative testing (8)
 - (b) Graph based testing (12)

4. Compare and contrast top down integration testing procedure with bottom up integration testing. (20)
 5. Give a neat description on functional system testing strategies. (20)
 6. Summarize the following performance testing methodologies.
 - (a) Analyzing the performance test results. (10)
 - (b) Performance tuning. (10)
 7.
 - (a) Write about performing an initial "smoke" or "sanity" test. (10)
 - (b) Discuss on testing tasks "size and effort estimation". (10)
 8. List and explain the various project metrics in detail. (20)
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Reg. No. :

D 1526

Q.P. Code : [07 DSC 08/
07 DSCA 08]

(For the candidates admitted from 2007–2008 onwards)

B.C.A/B.Sc. DEGREE EXAMINATION, MAY 2014.

Third Year

Part III — Computer Applications/Computer Science

COMPUTER NETWORKS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Explain the function of layers in the OSI reference model with a neat diagram.
2. Explain in detail, the various classifications of networks.
3. Discuss in detail, the guided transmission media used for communication.
4. Explain with suitable examples, the error detection and correction codes.

5. Discuss in detail on Bluetooth technology.
 6. Explain the various issues to be addressed in connection establishment.
 7. Discuss in detail on Domain Name system.
 8. Explain the following:
 - (a) Data Encryption Standard
 - (b) Advanced Encryption standard.
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