

Reg. No. :

D 1585

Q.P. Code : [07 DIT 04]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Part III — Information Technology

OBJECT ORIENTED PROGRAMMING WITH C++

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Explain the key concepts in object oriented programming.
2. (a) Explain the benefits of object oriented programming. (10)
(b) Explain the ways of creating symbolic constants in C++. (10)
3. Elaborate on the various aspects of member functions in C++.

4. Explain overloading of unary and binary operators by giving a C++ program for each.
 5. Explain in detail type conversion in C++ by giving examples.
 6. Explain multilevel and multiple inheritance by giving example C++ program.
 7. Explain the use of pointers and its types in C++ by giving examples.
 8. (a) Explain the use of class and function templates with examples. (12)
(b) Explain exception handling in C++ with an example. (8)
-

Reg. No. :

D 1586

Q.P. Code : [07 DIT 05]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Part III — Information Technology

SYSTEM SOFTWARE AND OPERATING SYSTEM

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Explain a simple SIC assembler with object code.
2. Explain the loader design options.
3. (a) Explain the basic macroprocessor functions.
(b) Discuss on user interface. (10 + 10)
4. Explain the design of a two-pass assembler.
5. Describe the interrupt processing and interrupt classes.
6. Explain variable partition multiprogramming.

7. What is job scheduling? Explain the different methods of job scheduling. (4 +16)
8. Write short notes on :
- (a) File descriptor.
 - (b) Access control matrix. (10 +10)
-

Reg. No. :

D 1587

Q.P. Code : [07 DIT 06]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Part III — Information Technology

SOFTWARE ENGINEERING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Elucidate on the various quality and productivity factors.
2. (a) Explain the various project size categories.(12)
(b) Explain the aspects to be considered in defining a problem. (8)
3. Elaborate on the various software cost functions.
4. Explain the various relational notation with examples.

5. Discuss on the various aspects in structured coding technique.
 6. Explain walk throughs and inspection with examples.
 7. Explain the aspects in system testing with examples.
 8. Elaborate on web application development engineering.
-

Reg. No. :

D 1588

Q.P. Code : [07 DIT 07]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Part III — Information Technology

INTERNET AND JAVA PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Explain the basic concepts of HTML in detail. (20)
2. Explain with examples, the various control structures and looping structures in Java. (20)
3. (a) Discuss in detail, the various types of operators in Java. (10)
(b) Describe the complete life cycle of a thread with state transition diagram of a thread.(10)

4. Explain the string handling features of Java in detail. (20)
5. Explain in detail, different types of inheritance with suitable examples. (20)
6. (a) Write an applet to receive the value of the parameter message from the HTML file and display it on the webpage. (10)
- (b) Write an applet to create a frame and place a dialog box in it. Dialog box should display a message in it. (10)
7. Explain in detail, the exception handling mechanism in Java. (20)
8. (a) What do you mean by check box control? How it differs from radio button control. (10)
- (b) Write applets to draw the following shapes :
- (i) Square inside a circle and. (5)
- (ii) Circle inside a square. (5)
-