

Reg. No. : .....

**D 1639**

**Q.P. Code : [07 DIT 04]**

(For the candidates admitted from 2007 onwards)

**B.Sc. DEGREE EXAMINATION, DECEMBER 2009.**

Second Year

Part III — Information Technology

**OBJECT ORIENTED PROGRAMMING WITH C++**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Explain on the important key concepts of OOPS and discuss on INLINE functions;
2. Briefly discuss on the different decision making statements with example.
3. How constructors are initialized and write about the usage of copy constructor?
4. Explain with a sample program the implementations of hybrid and hierarchial inheritance.

5. Explain with a sample program the usage of 'THIS' pointer.

6. Describe on the operations for input output in C++ programs. Give a sample program for implementation.

7. Illustrate with example, the different modes available in files.

8. Write about string initialization and manipulation operations with a standard example.

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**D 1640**

**Q.P. Code : 107 DIT 051**

(For the candidates admitted from 2007 onwards)

**B.Sc. DEGREE EXAMINATION, DECEMBER 2009.**

Second Year

Part III — Information Technology

**SYSTEM SOFTWARE AND OPERATING SYSTEM**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Explain the General Description and Functions of a Two Pass Assembler.
2. (a) Explain Conditional Macro Expansions.  
(b) Explain Macro Processor Algorithm and Data structures.
3. Explain Machine-Independent Macro Processor Features.
4. Explain Machine-Dependent Compiler features.

5. Explain the various Linking and Loading schemes.
6. Explain Fixed Partition multiprogramming.
7. Explain various seek optimization methods.
8. Explain the various types of Editor.



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**D 1641**

**Q.P. Code : 107 DIT 06]**

(For the candidates admitted from 2007 onwards)

**B.Sc. DEGREE EXAMINATION, DECEMBER 2009.**

Second Year

Part III — Information Technology

**SOFTWARE ENGINEERING**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Explain the procedure for Planning a Software Project.
2. Explain the Characteristics of Software Quality.
3. Write note on the following :
  - (a) Data Encapsulation. (5)
  - (b) The Goto statement. (5)
  - (c) Dos and Don'ts of Good Coding Style. (10)

4. Discuss various Software Cost Estimation Techniques.

5. Explain the Format and the Contents of a Software Requirements Specification.

6. Explain component based software engineering (CBSE) model.

7. Explain the development of critical systems.

8. Explain software verification for quality assurance.