D-2

B. Tech. EXAMINATION, May 2017

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(CSE, IT & AEI)

CSE-204-B

OBJECT ORIENTED PROGRAMMING

(Common with ECE, IT, IC, EEE & AEI in Vth Sem.)

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-36/*20*)**M-D-2**   **P.T.O.**

Unit I

1. (a) What are preprocessor directives ? Explain any *five* preprocesor directives. **5**

(b) Explain the features of OOP's with example. **10**

2. (a) What is abstract class ? Explain the role of abstract classes. **5**

(b) Explain the access specifier in C++ with suitable example. **10**

Unit II

3. Write a program of linklist using Dynamic memory allocation. **15**

4. (a) What is function overloading and operator overloading ? Explain with example. **10**

(b) Define the use of destructor. **5**

Unit III

5. Explain different types of inheritance with suitable example. **15**

6. (a) Define virtual function. Explain the rules to define the virtual functions. What is the benefits of using virtual function with example ? **10**

(b) Define the term reusability. How it achieved ? **5**

Unit IV

7. (a) How exception handling is performed in C++. Explain try, catch, and throwing in detail. **10**

(b) What is unexpected exception ? How these exceptions are handles ? **5**

8. Explain the various file handling mechanisms in C++. **15**