

3224

B. Tech. 5rd Semester (ECE)

(Open Elective - I)

Examination – December, 2022

OBJECT ORIENTED PROGRAMMING WITH C++

Paper : OEC-ECE 317-G

Time : Three Hours ]

[ Maximum Marks : 75

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

*Note : Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.*

1. Write short notes on : 5 × 3 = 15
- (a) Empty classes
  - (b) Virtual Destructors
  - (c) Preprocessor Directives
  - (d) Scope Resolution Operator
  - (e) Encapsulation

3224- 400 -(P-3)(Q-9)(22)

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**SECTION – A**

2. (a) What is object oriented programming ? How is it different from procedural oriented programming ? 8  
(b) Differentiate between structures in C++ with concept of classes in C++. 7
3. (a) What do you mean by Function overloading ? Explain with the help of suitable example. 10  
(b) Explain the concept of reusability in detail. 5

**SECTION – B**

4. (a) Discuss various access speceifiers in C++. 5  
(b) Explain different types of constructors in C++. 10
5. (a) What is friend function ? What are the advantages of using friend function ? Explain with example. 9  
(b) Differentiate between Friend function and member function. 6

**SECTION – C**

6. (a) What is Inheritance ? Explain various form of Inheritance with example. 10  
(b) Explain concept of 'this' pointer in C++. 5

3224- (P-3)(Q-9)(22) (2)

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7. What do you mean by operator overloading ? Discuss various rules in operator overloading. Also write a program in C++ to overload binary operator. 15

**SECTION – D**

8. What do you mean by virtual function ? What is the need of virtual function write a program in C++ to show functioning of virtual functions. 15
9. (a) What is Exception Handling ? What are the advantages of using Exception Handling mechanism in a program. 10
- (b) Write short note on Pure Virtual Function. 5
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