

Roll No. _____

3224

**B. Tech. (ECE) – (Open Elective-I) 5th Sem.
Examination – February, 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 Unit and Question No. 1 is compulsory.

1. Write a short note on :
 - (a) What is abstraction ? Explain with example. 2.5
 - (b) How we can define a class ? How we can access class members ? 2.5
 - (c) What do you mean by dynamic binding ? Explain. 2.5

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- (d) What is dynamic memory management ? 2.5
- (e) How constructor is differed from destructor ? Explain. 2.5
- (f) Explain exception handling mechanism. 2.5

UNIT - I

- 2. What is object oriented programming languages ? How it is differed from procedural languages ? Explain. 15

- 3. Explain the following with example : 15

- (a) Static members
- (b) Abstract classes
- (c) Access specifiers

UNIT - II

- 4. What is class ? How we declare a class in C++ ? Also explain how we can access class members ? 15

- 5. Explain the following in context of constructor :

- (a) Copy constructor 7.5
- (b) Dynamic constructor 7.5

- 6. What is inheritance ? What are different forms of inheritance ? Explain in detail. 15

UNIT - III

- 7. What is operator overloading ? Write a program in C++ to overload << operator using friend function. 15

UNIT - IV

- 8. Explain the following concepts related to Exception Handling: 15

- (a) Try Catch mechanism
- (b) Rethrowing an exception

- 9. What are function templates ? Explain class template with the help of program. 15