

Roll No.

3088

B. Tech. 4th Semester (CSE)

Examination – July, 2021

OBJECT ORIENTED PROGRAMMING

Paper : PCC-CSE-208-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
- (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 are 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 inheritance ? What are different forms of inheritance ? Explain in detail. 15
5. (a) How we declare and initialize pointer ? Explain with example program. 7.5
- (b) Explain dynamic memory management using new and delete operators. 7.5

UNIT – III

6. What is constructor ? Explain various types of constructors in detail. 15
7. What is operator overloading ? Write a program in C++ to overload + operator using friend function. 15

UNIT – IV

8. Explain the following concept related to Exception Handling : 15
 - (a) Catch Throw mechanism
 - (b) Rethrowing an exception
9. What are function templates ? Explain class template with the help of program. 15