

Third Semester B. C. A. (Part - II) Examination

**OBJECT ORIENTED PROGRAMMING WITH
C++**

3 ST 2

P. Pages : 3

Time : Three Hours]

[Max. Marks : 60

- Note :** (1) Assume suitable data wherever necessary.
(2) All questions are compulsory.
(3) All questions carry equal marks.

1. (a) What is object oriented programming paradigm ? What are the various applications of OOP ? 6
- (b) What is variable ? How are they declared and initialised ? 6

OR

2. (a) Compare Object Oriented Programming approach with Procedure Oriented Programming approach. 6
- (b) What are preprocessor directives ? Explain with an example. 6

3. (a) Explain with example :—

(i) goto

(ii) while. 6

(b) What is function prototype ? Explain with suitable example. 6

OR

4. (a) Explain the concept of inline function. 6

(b) Explain default arguments to function with example. 6

5. (a) Explain the following access specifiers :—

(i) private

(ii) public

(iii) protected. 6

(b) Explain nesting of member function with suitable example. 6

OR

6. (a) Explain the concept of returning object from function with suitable program. 6

(b) What is constructor ? What are the advantages of constructor ? 6

7. (a) What do you mean by operator overloading ? Explain with example. 6

(b) What are different forms of inheritance ? Give example of each. 6

OR

8. (a) Explain with example, how to create array of object. 6

(b) Write a program in C++, to overload unary (-) operator. 6

9. (a) Explain various file opening modes in C++. 6

(b) What is virtual function ? Differentiate between virtual and pure virtual function. 6

OR

10. (a) Explain with example, how class objects are written to and read from file. 6

(b) Explain file input and output fstream class with suitable example.. 6