

AU-197

B.C.A. Part-II Semester-III Examination
OBJECT ORIENTED PROGRAMMING WITH C++
Paper--3ST2

Time : Three Hours]

[Maximum Marks : 60

- N.B. :-** (1) All questions are compulsory
(2) All questions carry equal marks.

1. (a) What is object oriented programming ? What are the applications of OOP ? 6
(b) What is variable ? Explain declaration and initialization of variable with example. 6

OR

2. (a) Explain data type conversion used in C++ 6
(b) Explain the purpose of scope resolution operator with suitable example. 6
3. (a) Explain the concept of switch statement with example. 6
(b) Explain the following with example : 6
(i) Function calling.
(ii) Function Prototype

OR

4. (a) Explain function overloading with example. 6
(b) Explain for loop and write a program to print the square of the numbers from 1 to 10. 6
5. (a) What is class ? Describe the syntax for declaring a class with example. 6
(b) Explain multiple constructors in a class. 6

OR

6. (a) What are the differences between default and parameterized constructor ? Explain with example. 6
(b) Explain returning objects from function with example. 6

7. (a) What is operator overloading ? Explain it with suitable example. 6
(b) Explain base class and derived class with example. 6

OR

- 8 (a) Explain pointer to object with example. 6
(b) Explain the types of inheritance. 6
9. (a) What are the rules for virtual function ? 6
(b) Explain opening and closing of files in C++ with example. 6

OR

10. (a) Explain the pointers to derived class with suitable example. 6
(b) Explain opening of sequential file for reading and writing data with suitable example. 6