

AS-1509

**B.C.A. (Part-II) Semester-III Examination**  
**OBJECT ORIENTED PROGRAMMING WITH C++**  
**Paper – 3 ST 2**

Time : Three Hours]

[Maximum Marks : 60

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

1. (a) What is OOPS ? What are the applications of OOPS ? 6  
(b) Explain any three operators in C++ with example. 6

**OR**

2. (a) Explain the structure of C++ programme with example. 6  
(b) What is variable ? Explain the declaration and initialization of variable with example. 6  
3. (a) Explain the concept of switch statement with example. 6  
(b) Explain function prototype with suitable example. 6

**OR**

4. (a) Differentiate between while and do-while loops. 6  
(b) Explain the concept of default arguments with suitable example. 6  
5. (a) Explain the syntax used for defining a class with example. 6  
(b) Explain parameterized constructor with example. 6

**OR**

6. (a) Explain passing of objects as arguments. 6  
(b) Explain constructor with default argument. 6

7. (a) What is an array ? Explain the concept of array of object with example. 6  
(b) Explain the concept of derived and base class with example. 6

**OR**

8. (a) What is operator overloading ? Write rules for overloading operators. 6  
(b) Explain any two types of inheritance with example. 6  
9. (a) Explain the concept of pure virtual function with example. 6  
(b) Explain I/O operations of file stream class with example. 6

**OR**

10. (a) Explain virtual function with example. 6  
(b) Explain hierarchy of file stream classes. 6