

Code: 8445

Second Year B.Sc. (I.T.)

Paper No. 201: Object Oriented Programming with C++

Time: 3 Hours

Oct - 2017

Total Marks: 100

- Q.1 (a) Explain basic characteristics of POP and OOP. [10]  
(b) What do you mean by variable and data type? Give basic rules for naming variable in C++. [10]

OR

- Q.1 (a) What do you mean by operators? Explain different types of operator in C++. [10]  
(b) What do you mean by function? Explain concept of default arguments in function with suitable example. [10]

- Q.2 (a) What do you mean by class? Explain general structure of class declaration. [10]  
(b) What do you mean by function? Explain concept of friend function. [10]

OR

- Q.2 (a) What do you mean by object? Explain concept of array of an object. [10]  
(b) Explain concept of inline function with suitable example. [10]

- Q.3 (a) What do you mean by operator overloading? Give rules for operator overloading [10]  
(b) Explain concept of overloading binary operator using friend function. [10]

OR

- Q.3 (a) What do you mean by type conversion? Explain concept of Class data type to Class data type conversion. [10]  
(b) What do you mean by unary operator? Explain concept of overloading unary operator using member function. [10]

- Q.4 (a) What do you mean by inheritance? Explain basic concept of public, private and protected inheritance. [10]  
(b) Write note on multiple inheritance. [10]

OR

- Q.4 (a) Explain order of execution of constructor in derived class. [10]  
(b) Explain concept of virtual base class and abstract class [10]

- Q.5 (a) Explain file stream class structure. [10]  
(b) What do you mean by exception? Explain concept of try...catch to handle exception. [10]

OR

- Q.5 (a) What do you mean by file? Explain concept of opening file in various mode. [10]  
(b) Write note on command line argument. [10]