

## C 2503

B.C.A. (Three Year) DEGREE EXAMINATION, MARCH/APRIL 2017.

(End Semester Examination)

Second Semester

OBJECT ORIENTED PROGRAMMING USING C++

(Old Syllabus)

*Time : 3 Hours*

*Max. Marks : 70*

### PART — A

Answer any FIVE of the following questions. **(5 × 4 = 20 Marks)**

1. Write about applications of OOPs.
2. Write about access qualifiers.
3. Explain about operator overloading.
4. Describe about pure virtual functions.
5. Explain about inline function.
6. Explain basic data types in C++.
7. Explain about friend function.
8. Describe about multipath inheritance.

### PART — B

Answer ALL of the following questions. **(5 × 10 = 50 Marks)**

9. (a) Explain about OOPs concepts and benefits of OOP.  
Or  
(b) Write about looping statements and explain with example.
10. (a) What is constructor? Explain different types of constructors.  
Or  
(b) What is an array? Explain array of objects.

Turn Over

11. (a) What is inheritance? Explain different types of inheritances.

Or

(b) Explain the following :

(i) Streams operator overloading

(ii) Virtual destructor.

12. (a) Differentiate between function template and class template.

Or

(b) Explain about pointer to derived class objects. Give example.

13. (a) Explain about polymorphism in C++.

Or

(b) Explain about exception handling mechanism in C++.

---