

M.Sc. First Semester (Applied Electronics) (New) (CBS)
15003 : Objected Oriented Programming C++
1 AE 3

P. Pages : 2

Time : Three Hours



AV - 3293

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Illustrate your answer necessary with the help of neat sketches.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Write the applications of object oriented programming. 7
b) Describe different methods for defining constant in object oriented programming. 7

OR

2. a) How are data and function organized in an object oriented program. 7
b) What is structured programming? How OOP is different from structured programming. 7
3. a) What are the advantages of function prototypes in C++? 7
b) Explain with example. 6
 - i) In line function.
 - ii) Default arguments.

OR

4. a) Write a program to add two complex numbers C_1 and C_2 store the result in C_3 using operator over loading. 7
b) What is scope resolution operator? Explain with suitable program segment? 6
5. a) What is parameterized constructor and null constructor? Explain with proper program segment in C++. 7
b) Explain friend function with example. 6

OR

6. a) Write a program segment in C++ to demonstrate the concept of pointer to member. 7
b) Explain public and private access specifier along with general syntax. 6
7. a) What is inheritance? Explain different types with examples. 7
b) What is visibility mode? What are different visibility modes? Explain. 7

OR

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P.T.O

8. a) What is access specifier? Write and explain different access specifiers used in C++. 7
b) What is virtual base class? Explain with the help of suitable example. 7
9. a) Explain polymorphism. How virtual functions are used to implement dynamic polymorphism. 7
b) Write C++ program to overload the function named 'show' to display different type of data values. 6

OR

10. a) Explain following terms using program segment. 7
i) Compile time polymorphism.
ii) Run time polymorphism.
b) Explain obstruct base class. 6
11. a) Explain how a stream is used to in error handling. 7
b) Write a program to display following output. 6
Object
Object Oriented
Object Oriented Program
Object Oriented
Object

OR

12. a) Explain fitting and padding in C++ streams by using suitable program segment. 7
b) Explain in detail. 6
i) Insection operator.
ii) Extraction operator.
