

Roll No.
Printed Pages : 3

1646

GSM / M-18

17. COMPUTER SCIENCE

Paper-I

Object Oriented Programming with C++

Time allowed : 3 hours] [Maximum marks : B.Sc. : 40

Note : Question No. 1 is compulsory. Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

1. Compulsory Question :

- (i) Define Class ✓
- (ii) What do you mean by object of a class ? ✓
- (iii) What are manipulators ? ✓
- (iv) What is array ? ✓
- (v) Define polymorphism. ✓
- (vi) What is the use of pointer variable ?
- (vii) What is the use of new operator ?
- (viii) What do you mean by modular approach in programming ?

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[Turn over

(2)

Unit-I

2. Explain the following concepts of C++ with the help of suitable examples :
 - (i) Encapsulation
 - (ii) Data Members and member functions
 - (iii) Local class
 - (iv) Structures
3. What is the difference between procedure oriented programming and object oriented programming ? What are the benefits of using object oriented paradigm to programming ? (5)

Unit-II

4. What do you mean by constructor ? Explain the concept of parameterized constructors and copy constructors with suitable example. (6)
5. What do you mean by unformatted and formatted output ? Explain different functions used for formatting the output.

Unit-III

6. What do you mean by call by reference ? Write a program to swap two numbers using function with the help of call by reference.

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(3)

7. Write short note on the following by giving suitable example :

- (i) Pointer
- (ii) Friend class

Unit-IV

8. What is function overloading ? Write a program to overload a function.

9. (i) What are the advantages of using inline function ? What are the conditions of making a function inline ?

(ii) What do you mean by static polymorphism ?

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