

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM-1032

M.Sc. (Ist Semester) Examination, 2022

COMPUTER SCIENCE

Paper - FS-COMP-MS-C-104

(C++ Programming)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed 50 words.

Section-B

(Marks : 3 × 5 = 15)

Note :- The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answer should not exceed 200 words.

Section-C

(Marks : 5 × 3 = 15)

Note :- The candidate is required to answer *three* questions by selecting *one* question from each Unit. Each question carries 5 marks. The answer should not exceed 500 words.

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Section–A

1. Attempt all questions. Answer should not exceed **50** words in each question.
 - (i) What is Variable ?
 - (ii) Define Pointers.
 - (iii) What is Recursion ?
 - (iv) What is Class ?
 - (v) Define Polymorphism.
 - (vi) What is Inline Function ?
 - (vii) What is Linear Search ?
 - (viii) What is String ?
 - (ix) Define Heap Sort.
 - (x) Define if else statement with syntax.

Section–B

Note :- Answer *five* questions in about **200** words, by selecting at least *one* question from each Unit. Each question carries **3** marks.

Unit–I

2. Write the characteristics of OOPs.
3. Define goto statement with example.
4. What is Pointer ? Define with example.

Unit–II

5. What is Operator Overloading ?
6. Define virtual and friend function.
7. What is Inline Function ?

Unit-III

8. What is Searching ? Define Binary Search.
9. Write a program in C++ which input 10 numbers and sort them in ascending order.
10. Write a short note on templates.

Section-C

Note :- Answer *three* questions in about **500** words by selecting *one* question from each Unit. Each question carries **5** marks.

Unit-I

11. What is Array ? Define the various types of Array.
12. What is Looping ? Define while and do-while loop with example.

Unit-II

13. What is Inheritance ? Define various types of inheritance.
14. Define constructors and destructors.

Unit-III

15. What is String ? Define the various string handling functions with example.
16. What is Sorting ? Define selection and quick sort.