

2021

Computer Science

[HONOURS]

(CBCS)

(B.Sc. First Semester End Examination-2021)

PAPER-C1T

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their own words as  
far as practicable  
Illustrate the answers wherever necessary*

**Group-A**

**Answer any FIVE questions of the following:            2x5=10**

1. What is 'this' pointer?
2. Explain Local & global variable with examples.
3. What are the advantage & disadvantage of using Macros as  
Compared to function in C languages?
4. What is scope resolution (::) operator?
5. What is escape Sequences?
6. Find out value of c after the execution of the program-

```
void main( )
```

```
{ int a,b,c;
```

```
a=q;
```

```
b=10;
```

(2)

```
c=(b<a||b>a);  
clrser ();
```

7. Difference between structure and class in C++.
8. What do you mean by 'constructor'?

### Group-B

**Answer any FOUR questions of the following: 5x4 = 20**

1. What is recursion? Distinguish between recursion & iterative function with examples.
2. What is pointer arithmetic? How it is performed?
3. What is operator overloading? Describe any operator overloading function.
4. Describe the Polymorphism Principle.
5. What is object? How to create an object in class? What do you mean by the term 'polymorphism'?
6. Define access specifier and its various types in C++.

### Group -C

**Answer any TWO questions of the following: 10x2 = 20**

1. How an array is passed to a function in C? Write a function which accepts an array as an argument and finds the average of its elements.

Explain strcmp () and strrev (). 2+4+(2+2)

(3)

2. i) What is function overloading? Write the difference between compile-time polymorphism and Run-time Polymorphism. 2+4  
ii) Write a C++ program to calculate area of a circle. 4

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