

2022

1st Semester Examination

COMPUTER SCIENCE (Honours)

Paper : C 1-T

(Programming Fundamentals Using C/C++)

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

A. Answer any *five* questions : 2×5=10

- (i) Write the difference between C and C++.
- (ii) Distinguish between constant and variable.
- (iii) What is conditional operator?
- (iv) Write the syntax of for-loop in C.
- (v) How we define class in C++?
- (vi) What is polymorphism?
- (vii) What is pointer? Give example.
- (viii) What is a storage class in C?

P.T.O.

B. Answer any *four* questions :

5×4=20

- (i) What is the difference between branching and looping? Write the difference between while and do-while statement. 2+3
- (ii) What do you mean by recursion? Calculate $\lfloor n \rfloor$ using recursion in C — programming language. 2+3
- (iii) Write a program to check whether a string is palindrome or not. 5
- (iv) What are the C++ access specifiers? 5
- (v) What is increment operator in C and what is friend function in C++? 2+3
- (vi) Write the differences between break and continue. Write variable declaration syntax. 3+2

C. Answer any *one* question :

10×1=10

- (i) What is destructor? Write a program to add two complex numbers using operator overloading in C++. 3+7
- (ii) What is symbolic constraint? Give example. What is an array? How array can be declared? Write a program to sort some given numbers given from keyboard in ascending order in C. 3+2+2+3
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2022
BSc
Computer Science (H)
1st Semester Examination
Programming Fundamentals Using C/C++ Lab
PAPER- C1P (SET-2)
FULL MARKS :20
TIME :2 Hours

Answer Any One Question (Lottery Basis)

15 X 1=20

1. Write a programme in C/C++ to read weekday number and print weekday name using switch case.
2. Write a programme in C/C++ to print first n number of Fibonacci series.
3. Write a programme in C/C++ to check a string is palindrome or not.
4. Write a programme in C/C++ to check a year is leap year or not.
5. Write a programme in C/C++ to swap the values of two integer variable by method of "Call by reference".
6. Write a programme in C++ to demonstrate function overloading.
7. Write a programme in C/C++ to calculate factorial on an integer number.
8. Write a programme in C/C++ to check a number is prime or not.

PNB+VIVA:- 05
