

Roll No.

Total Pages : 03

July-22-00211

B. Tech. EXAMINATION, 2022

Semester II (CBCS)

COMPUTER FUNDAMENTALS &
PROGRAMMING IN C++

CS-101

Time : 3 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *Five* questions in all, selecting *one* question from each Section A, B, C and D. Q. No. 9 is compulsory.

Section A

1. Describe the basics of computer and its operation with diagram. 10

2. Explain the role of compiler, interpreter and assembler. **10**

Section B

3. Discuss the different types of number systems and give one example from binary to octal. **10**
4. Explain the different types of storage units. **10**

Section C

5. (a) What are different types of C++ tokens ? **5**
(b) Explain the structure of a C++ program. **5**
6. (a) Describe the built-in data types. **5**
(b) Explain the different types of operators used in C++. **5**

Section D

7. (a) Write a program using switch case statement. **5**
(b) Give the difference between call by value and call by reference. **5**
8. (a) Write a program to find greatest among two numbers. **5**

- (b) Explain the one dimensional array with example. **5**

(Compulsory Question)

9. (a) Define the process of booting.
(b) What is type casting ?
(c) What is the function of address and data bus ?
(d) Give the difference between global and local variables.
(e) Define the cache memory.
(f) What is application software ?
(g) Define a structure.
(h) Explain break statement.
(i) What is an array ?
(j) What is default argument ? **10×2=20**