Total Pages: 03

# J-FB-22-00199

## B. Tech. EXAMINATION, 2022

Semester 1 (CBCS)

# COMPUTER FUNDAMENTALS

& PROGRAMMING IN CH

CS-101

Time: 3 Hours

(2-02/15)W-J-FB-22-00199

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 Sections A. B. C and D. Q No. 9 is compulsory

### Section A

1. Draw the block diagram to illustrate basic organization of computer system and explain the function of various units 10

P.T.O.

2. What is Programming Language 7 What are various types of computer language? Explain the characteristics of each of them. 10

#### Section R

- 3. What is a number system in computer science? Explain in detail with the help of examples. Why is the number conversion necessary? 10
- 4. Explain the memory hierarchy in detail with the help of relevant diagram https://www.hptuonline.com 10

#### Section C

- 5. What is the need of data types in C++ ? Describe different data types along with their representations 10 and size in C++.
- Draw the diagram to represent the basic structure of a programming C++ and write a program to Swap 10 two numbers

#### Section D

7. What is the need of array 2 Discuss different types of arrays and write C++ program to find sum of an 10 array elements

2

8. Explain the different control statements in C++ with their syntax 10

## (Compulsory Question)

- 9. Write short notes on the following 2-10=20
  - (a) Operating System
  - (b) Compiler and Interpreter
  - (c) Cache Memory
  - (d) Increment and Decrement Operator
  - (c) Switch Case
  - (f) Structure
  - (g) function
  - (h) Type Casting
  - (a) BCD
  - (j) Tokens

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(2-02-16) W.J.F