

2E2303

Roll No. _____

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B. Tech. II-Sem. (Back) (Back) Exam., Oct.-Nov. - 2020
CS - 103 Computer Programming - II

Time: 2 Hours

Maximum Marks: 48
Min. Passing Marks: 16

Instructions to Candidates:

Attempt any two questions including Question No. 1, which is compulsory. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL

2. NIL

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- Q.1 (a) Why system software is essential for computer hardware? [2]
- (b) What do you mean by freeware and why loader is used in computer system? [2]
- (c) What is the difference between constant and variable? Explain the rules for defining a variable. [2]
- (d) Describe the steps used to execute a C program. [2]
- (e) What is the difference between size of an array and index of an array? [2]
- (f) What are the arrays & pointers? [2]
- (g) Differentiate between - [2]
- (1) Array and structure
 - (2) Structure and union
- (h) What is the difference between end of a file and end of a string? [2]

Q.2 Differentiate between system and application software. [16]

Q.3 What are peripherals? Differentiate input and output devices used in computer system. [16]

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Q.4 Write a program to read a 3×3 matrix and print its values. [16]

Q.5 Write a program to calculate length of a string. [16]

Q.6 Write a program to create a structure student, read information of 10 students and print names of those students whose marks is greater than 75. [16]

Q.7 Write a program to read a line of text and store it into a file. [16]
