

Roll No.

24006

**B. Tech. 1st Semester (Common for All
Branches)**

Examination – February, 2022

FUNDAMENTALS OF COMPUTER & PROG. IN 'C'

Paper : CSE-101-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each section. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on :

- | | |
|-----------------------|---|
| (a) Unix & Linux O.S. | 5 |
| (b) Linker & Loader | 5 |
| (c) Character Arrays | 5 |
| (d) Calloc vs. Malloc | 5 |

24006 (P-3)(Q-9)(22)

P. T. O.

SECTION - A

2. (a) Describe evolution of computers through its various generations. 12
- (b) What is a microprocessor? What is its role in a computer? 8
3. Elaborate the concept of operating system and its functions in detail. 20

SECTION - B

4. (a) Differentiate between machine level, assembly level & low level languages. Also define the various software devices needed for each. 12
- (b) Write types of high-level languages. 8
5. Describe OSI Reference Model. 20

SECTION - C

6. (a) Write a program to check whether a number entered by user is prime number or not. 10
- (b) Explain the difference between Arrays & Strings. 10
7. WAP that inputs name of car, number of gears (integer) and price (float) for 10 cars & print them all on screen. 20

SECTION - D

8. WAP that creates 5 variables : one for each char, int, float, double & long double. Then create pointers for each variable. Finally, demonstrate size of each variable and its pointer on screen. 20
9. Explain the concept of Dynamic Memory Allocation & various functions used for it. 20

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