

Total No. of Questions : 4]

PF2072

SEAT No. :

[Total No. of Pages : 2

[6662]-201

F.Y. B.Sc. (Computer Science)

CS - 151 - T : ADVANCED 'C' PROGRAMMING
(Revised 2024 NEP Pattern) (Semester - II)

Time : 2 Hours]

[Max. Marks : 30

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Attempt any six of the following :

[6×1=6]

- a) Define the pointer.
- b) List the types of file.
- c) Define preprocessor.
- d) What is structure?
- e) What are dangling pointers?
- f) Write the syntax for fopen().
- g) What is the use of a typedef?
- h) List the types of Macros.

Q2) Attempt any four of the following :

[4×2=8]

- a) Define string. How to declare it.
- b) Explain syntax of fgets() and fputs() with examples.
- c) Differentiate between structure and union.
- d) Explain the following function with syntax.
 - i) Strlen ()
 - ii) Strcpy()
 - iii) Strcat()
 - iv) Strrev()
- e) Explain nested structures with examples.

P.T.O.

- f) What is the output of the following C code? Justify.

```
#include<stdio.h>

int main() {
    int arr[] = {10, 20, 30};
    int *ptr = arr;
    ptr++;
    printf("%d", *ptr);
    return 0;
}
```

Q3) Attempt any two of the following :

[2×4=8]

- Explain command line arguments with examples.
- Write a C program to accept a string and convert in upper to lower or vice versa.
- Explain Dynamic memory management function with example.

Q4) Attempt any two of the following :

[2×4=8]

- Write C program to find the cube of given number using micro function.
- Explain the working of Array of structures with examples.
- Write a C program to find minimum from an array using pointer.

x

x

x