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SEAT No.:

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**F.Y.B.Sc. (Computer Science)**  
**CS-121: Advanced 'C' Programming**  
**(2019Pattern) (CBCS) (Semester-II)**

**[Time:2Hours]**

**[Max.Marks:35]**

**Instructions to the candidates:**

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks*
- 3) *Assume suitable data if necessary.*

**Q1) Attempt any Eight of the following:**

**[8×1=8]**

- a) What is array of pointers?
- b) What is file opening mode.
- c) List the types of files.
- d) Write advantages of union.
- e) What is use of typedef?
- f) What is command line argument?
- g) What is string? Give example.
- h) What is null pointer?
- i) What is use strcpy() in C?
- j) What is macro?

**Q2) Attempt any Four of the following:**

**[4×2=8]**

- a) Write difference between call by value and call by reference.
- b) What is the use of # include directive?

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- c) Explain various File access mode.
- d) Write short note on accessing structure members.
- e) Define the following terms
  - i) realloc() ii) free()

Q3) Attempt any **Two** of the following: [2×4=8]

- a) Explain the use of fgets() and fputs() with suitable example.
- b) Differentiate between static & dynamic memory allocation.
- c) Explain with example nested macro

Q4) Attempt any **Two** of the following: [2×4=8]

a) Trace the output for the following:

```
ii) #include<stdio.h>
void main()
{
    char *a= "india";
    printf("%s",a);
    getch();
}
```

b) Explain following functions with syntax and example  
fscanf (), fprintf (),getchar(),putchar().

c) Differentiate between structure and union.

Q5) Attempt any **one** of the following: [1×3=3]

- a) Write a program to create structure of employee detail and display the employee detail.
- b) Write a program to copy the contents from one text file to another.

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