



RAN-2411001102010001

B.Sc(IT) (Sem.-II) Examination April - 2026

Fundamentals of Programming Using C-2 (Paper-203)

Time: 2 Hours]
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. Answer following questions (Any Ten)
10

- (1) Write syntax to disable packing option in structure in C.
- (2) Which storage class preserves a variable's value between function calls?
- (3) What will be output of the following code?

```
#include<stdio.h>
int x=10;
int main()
{
    int x=20;
    printf("%d", x);
    return 0;
}
```
- (4) Write a syntax to declare a pointer that stores address of another integer pointer?
- (5) Which function changes size of allocated memory?
- (6) What will be output of the following code?

```
#include<stdio.h>
int main()
{
    int a[]={2,4,6};
    printf("%d", *(a+2));
    return 0;
}
```
- (7) _____ function moves file pointer to beginning of the file.
- (8) Which function converts string to integer?
- (9) What is datatype of argv in command line arguments?
- (10) What is the difference between #include <file> and #include "file"?
- (11) What does int const *p mean?

Q.2. A. Answer following questions: (Any Two)
10

- (1) What is structure? Explain nested structure with suitable example.
- (2) Explain all four storage classes in C with appropriate example.
- (3) What is recursion? How recursive functions calls are stored? Explain with example.

- Q.2. B. Answer following questions: (Any One) 04**
(1) Write a note on call by value and call by reference in C with example.
(2) Write a note on function pointer in C with example.
- Q.3. A. Answer following questions: (Any Two) 10**
(1) Explain different types of preprocessor directives with example.
(2) Explain pointer to structure in C with suitable example.
(3) Explain sequential file processing and random access file processing. Explain working of fseek(), ftell() and rewind() with suitable example.
- Q.3. B. Answer following questions: (Any One) 04**
(1) Differentiate between fprintf() and fwrite().
(2) Differentiate between Pointer to Constant and Constant Pointer.
- Q.4. Answer following questions: (Any Three) 12**
(1) Write a C program to copy content of one file into another file using command line arguments.
(2) Write user defined function in C to multiply two numbers using recursion.
(3) Write user defined function to concatenate two strings using pointer.
(4) Write C program to find the largest and smallest elements in an array using dynamic memory allocation.
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