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**2022274(022)**

**Diploma In Engg. (Second Semester) Examination,  
April-May 2021**

**NITTR (New Scheme)**

**(Electronics and Telecommunication/Instrumentation/  
Computer Science & Engineering/Information  
Technology Engg. Branch) (Group-II)**

**PROGRAMMING IN 'C'**

***Time Allowed : Three hours***

***Maximum Marks : 70***

***Minimum Passing Marks : 25***

***Note : All questions are compulsory, unless mentioned  
otherwise.***

1. (a) Write down advantages and disadvantages of algorithms. 4

**Or**

Draw a flow chart for largest among three given number.

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[ 2 ]

- (b) Write down difference between formatted and unformatted Input/Output functions in C. 4

Or

Differentiate between pre increment and post increment with example.

2. (a) What is an identifier? What are the rules to be followed for naming an identifier. 4

Or

Distinguish between local and global variables in C.

- (b) Write down a program in 'C' to convert temperature from Fahrenheit to Celsius. 3

Or

Write down a 'C' program to find area of a Circle.

3. Attempt any **three** questions : 3×5=15

(a) Differentiate between conditional and unconditional branching in 'C'.

(b) Explain Switch statement with example, what are the rules for switch statement.

(c) Write down a Program in 'C' to find Roots of

[ 3 ]

Quadratic Equations  $AX^2 + BX + C = 0$ .

(d) Write down a program in 'C' to convert a given number of days in terms of years, weeks and days.

4. Attempt any **two** questions : 2×5=10

(a) Difference between *break* and *continue* statement.

(b) Difference the use of *while* and *do....while* loop with example.

(c) Write down a program in 'C' to find factorial of any given number.

5. Attempt any **two** questions : 2×5=10

(a) What is a function? List out need of function.

(b) Explain the following functions with example :

(i) Ceil( )

(ii) Floor( )

(c) Write down a program in 'C' to calculate power of a given number using user-defined function.

6. Attempt any **two** questions : 2×5=10

- (a) What is an array, how you can declare and initialize one-dimension array, explain with example.
- (b) Write down a program in 'C' to search a given number in one dimensional array.
- (c) Write a 'C' program to concatenation of two strings, where first string is "Hello" and second string is "World".

7. Write a short notes on : (any two)

$2 \times 5 = 10$

- (a) Conditional operators
- (b) GOTO statement
- (c) Pseudo Codes
- (d) Escape sequence