

No. of Printed Pages : 4  
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180836/170836/82435

**3rd Sem / Branch : Computer/Mechtronics**  
**Sub.: Programming in C**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory  
(10x1=10)

**Q.1** Which of the following is not a valid C variable name?

- a) Int num;
- b) Float \$price;
- c) int variable\_count;
- d) int main;

**Q.2** What will be the output of the following C code?

```
#include<stdio.h>
int main()
{
    int p=1, q=2, r=3, s=4, x;
    e=r+s=q * p;
    printf("%d, %d\n", x, s);
}
```

- a) Syntax error
- b) 5, 2
- c) 7, 2
- d) 7, 4

**Q.3** Break statement exit from Program. State True/False

**Q.4** Which keyword is used to prevent any changes in the variable within a C program?

- a) Immutable
- b) Mutable
- c) Const
- d) Volatile

**Q.5** Which is correct with respect to the size of the data types?

- a) Chair > Int > float
- b) int > char > float
- c) Char < int < double
- d) double > char > int

**Q.6** Which of the following is not a logical operator?

- a) &&
- b) !
- c) II
- d) I

**Q.7** The C-Prprocessors are specified with \_\_\_\_\_ symbol.

- a) #
- b) \$
- c) " "
- d) &

**Q.8** Strlen ( ) is a predefined function in \_\_\_\_\_ header file.

- a) Stdlib.h
- b) String.h
- c) Stdio.h
- d) Stdarg.H

**Q.9** A function written by a programme is called user defined function.

- a) True
- b) False

**Q.10** The standard header \_\_\_\_\_ is used for formatted I/O functions in C.

- a) <stdio.h>
- b) <stdlib.h>
- c) <math.h>
- d) <stdarg.H>

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(2) 180836/170836/82435

## **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write full form of PDLC?
- Q.12 What is the difference between structure and an Array?
- Q.13 Which function is required in all C programs.
- Q.14 What is unary operators?
- Q.15 What happens if the number of values in the initialization list is less than the size of array?
- Q.16 Define recursion?
- Q.17 What is go to statement?
- Q.18 Define pointer variable.
- Q.19 What is the purpose of strcpy.
- Q.20 \_\_\_\_\_ operator is used for access the members of a structures.

## **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the basic structure of C program.
- Q.22 What is the difference between if else and switch statement?
- Q.23 What is the difference between “=” and double “ =”?
- Q.24 Write a program to swap the value of two variables by using functions.

- Q.25 Explain flowchart. What are the different symbols used in flowchart?
- Q.26 What is the purpose of do while statement? How does it differ from the while statement.
- Q.27 Explain recursion by using a suitable example.
- Q.28 What is the difference between structure and union?
- Q.29 What is the difference between call by value and call by reference?
- Q.30 What is the purpose of strcat () and strlen ()?
- Q.31 Write a program to accept any integer from the keyboard and print its table.
- Q.32 What is the difference between top down and bottom up approach?
- Q.33 Write syntax of switch case statement?
- Q.34 What is array? Discuss different types of arrays with example?
- Q.35 Differentiate between break and exit.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Discuss the various control statements with their syntax and purpose.
- Q.37 Explain difference between actual and formal argument with example.
- Q.38 Write the types of operators used in C and explain them with example.