

No. of Printed Pages : 4

180836/170836/82435

Roll No.

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-Prprocesors 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>

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.

(3) 180836/170836/82435

- 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.

(2460)

(4) 180836/170836/82435