

3 Hour	s/100 Marks		Seat No.							
	(3) (4)	All questions a Answer each Illustrate your necessary. Figures to the Assume suita	next main q answers w right indic	uestic ith nea ate fu	at ske II mai	etches			er	
					-				Mar	ĸs
1. At	ttempt any ten of the	following :							:	20
a)	Describe generic st	ructure of 'C' pr	ogram.							
b)	State the logical and	d relational oper	rator availa	ble in (C-lan	guage	.			
c)	State the use of cor	itinue statemen	t.							
d)	Write the syntax of	switch case sta	itement.							
e)	Write the output of f	ollowing progra	m							
	#include < stdio.h >									
	void main ()									
	{									
	int a [5] = {1, 2, 3	, 4, 5};								
	printf ("%d",a [4]);								
	}									
f)	Give the syntax of	strcat () string	function.							
g)	State the scope of I	ocal and global	variable.							
h)	Distinguish betwee	n call by value a	and call by	refere	nce [2	2 poin	ts]			
i)	Explain the effect of following statement									
	int a, * b = & a;									
j)	Give the difference	between break	and contin	ue sta	temei	nt [2 p	oints			
k)	State two features of	of C-language.								
I)	Give the syntax of t	or loop.								

- 2. Attempt any four of the following :
 - a) State the constants and variables with example.
 - b) Enlist different format specifier with its use.
 - c) Explain formatted input-output.
 - d) Explain post increment-decrement operator.
 - e) Write a C-program to accept an integer number and display whether it is odd or even.

-2-

- f) State do while loop with example.
- 3. Attempt any four of the following :
 - a) Write a program to accept an integer number and print whether it is palindrome or not.
 - b) Find out the errors from following program, justify the same and write correct program :

```
void main ( )
{
    int j = 1
    for (i = 0; i < 20; i ++)
    printf ("%d", i, j);
    printf ("%d",i);</pre>
```

- }
- c) Explain nested if-else with example.
- d) Write a program to print the following pattern
 - * * * * * * * * * * * * * * *
- e) Write a program which will count number of digit in entered number.
- f) Write a program to find out sum of numbers from 1 to 100.

MARKS

```
16
```

- 4. Attempt any four of the following :
 - a) Write a program to copy one string into another and count the number of character copied.

-3-

- b) Explain the use of the following function with syntax :
 - i) strcmp ()
 - ii) strlen ()
- c) Explain how to initialize two dimensional array with example.
- d) State various categories of function with one example of each.
- e) Explain any two storage classes.
- f) Define:
 - i) Function definition
 - ii) Function body
 - iii) Function call
 - iv) Function prototype.
- 5. Attempt any four of the following :
 - a) Define array with its need and how elements are allocated with space in memory for one dimensional array.
 - b) Write a program to sort elements of an array in ascending order. Read elements of array from user [using scanf function].
 - c) Write a program to declare structure student having member variables are roll-no., name and marks. Accept data for one student and display it.
 - d) Explain recursion with suitable example.
 - e) Explain structure with example.
 - f) Write a function to swap the value of variables say a and b. Use function name "swap".

17212

16

Marks

- 6. Attempt any four of the following :
 - a) Write a function to display fibonnacci series up to given number using recursion. Use function name "Fibbo".
 - b) Define pointer. State the syntax to declare pointer variable with example.

```
    c) Give the output of following code :
    # include <stdio.h>
    void main ()
```

```
{
    int * a [4];
    int i;
    int m = 10, n = 20, p =30, q = 40;
    a [0] = & m;
    a [0] = & m;
    a [1] = &n;
    a [1] = &n;
    a [2] = &p;
    a [3] = &q;
    for (i = 0; i < 4; i ++ )
        printf ("%d \n", * a [1] );
}</pre>
```

- d) Write a program in C using pointers to determine length of a string.
- e) Write a program using pointers to compute the sum of all elements stored in an array.
- f) The following is segment of a program :

```
void main ( )
{
    int a, b, * p1, * p2, x, y;
    a = 10; b = 5;
    p1 = & a;
    p2 = & b;
    x = * p1 * * p2 - 6;
    y = * p1 * * p2 + 10;
    printf ("a = %d, b = %d", a, b);
    printf ("x = %d, y = %d", x, y);
}
What will be the output of program ?
```

16