

d = --b;e = b - -;

c = a - - - b;printf("%d %d

%d

Reg. No.					

DEPARTMENT OF SCIENCES, I SEMESTER M.Sc (Applied Mathematics and Computing)) END SEMESTER MAKE UP EXAMINATIONS, Dec 2017

Subject : [C-Programming-MAT 609]

(REVISED CREDIT SYSTEM-2017)								
Time:	3 Hours	Date: 26.12.2017	MAX. MARKS: 50					
Note:	(i) Answer any FIVE FUL	L questions						
	(ii) All questions carry equa	l marks (4+3+3)						
1.	(a) Write a program to get(b) Write a program to resolve sort the list in descent	enerate Fibonacci sequent ead the name and total m ding order of the marks ar	ce using recursion. arks of a list of students and id display it using structures.					
(c	(c) Write the output of the	ne following program						
2.	<pre>#include <stdio.h> main() { int $r = 3, l = 5, x$ $y = x >> r;$ $z = x << l;$ printf("$y = \% d \setminus t$ } (a) Write a program that minutes and seconds (b) Explain identifiers and</stdio.h></pre>	= 19, y, z; $z = % d. ", y, z);$ accepts the time in secor. d keywords with an examp	nds and converts it to hours, ple.					
	(c) Write the output of the	ne following program.						
	#include <stdio.h> main() { int $a = -3, b = 3,$</stdio.h>	, c, d, e;						

%d %d",*a*, *b*, *c*, *d*, *e*); }

- 3. (a) Write a program to convert an entered binary number to a decimal number.
 - (b) Write a program to find sum of first N natural numbers using while loop.
 - (c) With syntax and examples, explain static, register and extern.
- 4. (a) Write a program to check whether a given matrix is Diagonal or not?
 - (b) Write a program to sort n names in alphabetical order.
 - (c) Discuss the following string handling functions with suitable example for each;(i) strcat()(ii) strcmpi()(iii) strlen()
- 5. (a) Write the output of the following program segment;

```
#include<stdio.h>
      void change(int *, int);
      main()
      {
      int a[] = \{2,4,6,8,10\};
       int i;
       change(a, 5);
       for(i = 0; i < 5; i + +)
       printf ("\n%d", a[i]);
      }
       void change(int * b, int n);
      {
       int i:
       for(i = 0; i < n; i + +)
       *(b+i) = *(b+j) + 5;
(b) Evaluate 2 * ((i/5) + (4 * (j - 3))\%(i + j - 2)) given i = 8 and j = 5
    are integers.
(c) Draw a flow chart to find largest and smallest of 3 input numbers.
(a) Write a program to sort a set of numbers using bubble sort technique.
(b) Explain assignment and conditional operator with an example.
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(c) Which of the following are invalid variable names and why?

6.

(i) _basic (ii) 2017_Day (iii) over time (iv) bAsIC