4 SEM TDC MTH M 1 (A)

2022

(June/July)

MATHEMATICS

(Major)

Course: 401

(A : Computer Programming)

Full Marks: 50
Pass Marks: 15

Time: 21/2 hours

The figures in the margin indicate full marks for the questions

1.	(a)	Define algorithm.	2
	(b)	Write any one key word.	
	(c)	Blank space is a character. State true or false.	
	(d)	Describe primary data type.	3
	(e)	Write three rules for defining a variable.	3
		Or	
		Draw the flowchart to solve a linear equation.	

22P/1197

(Turn Over)

2.	(a)	Write the complement of >.	1
	(b)	Write the equivalent form of $x > y$.	1
	(c)	Describe conditional operator.	2
	(d)	Write all relational operators with their meaning. Or	3
		In Section	
		Describe bitwise operators.	
3.	(a)	State the error(s) if any in the input statement	
		scanf (\n"%"f, boof)	2
	(b)	Distinguish between %f and %e.	2
	(c)	Describe the header file stdio.h.	3
5		Or ill continents ()	
1		Write a program to calculate the area of a circle.	
	10 91	ify Stank apace is a character State of	
4.	(a)	Simplify the logical expression	
Dey		!(x+y==z) & & (z>6)	2
	(b)	Write the value of x when the following segment is executed:	3
	tiety	int $x = 10$, $y = 15$; x = (x < y)?(y + x):(y - x);	
22P	/119	(Continu	ed)
44-	25 1		

(c) Describe nested if...else statement. 3

Lendel on the Or

Write a program which reads a student's marks in 3 tests and then prints 1 if the student is passed, otherwise zero.

5. (a) Find the error(s) in the statement int num $[3] = \{1; 2; 3\}$

1

Write about the type of error if x[i][j] (b) is written as x[i, j].

Write the output of the following (c) program:

4

1

main () int $m[]=\{1, 2, 3, 4, 5\}$ int x, y = 0; for (x=0; x<5; x++)y = y + m[x];print ("%d", y);

Write a program to read a matrix and (d) print it.

4

Or

Write a program to compute scalar product of two vectors.

6.	(a)	Describe return statement.	2
	(b)	Write the three elements of user-defined functions.	3
	(c)	Describe function call of various forms.	3
		Or man de la company	
		Write a program to solve a quadratic equation.	

Part 1, 20 November 12 ** * Committee September 1