2015

(6th Semester)

MATHEMATICS

Paper: MATH-364A

(Computer Programming in C)

Full Marks: 55

Time: 21/2 hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

The figures in the margin indicate full marks for the questions

- 1. (a) Explain formatted and unformatted input/output function.
 - (b) Write notes on keyword and header files. La graine manuary

Differentiate between operators and operands. Discuss the commonly used operators in C programming.

2. Explain if....else and else...if with flowchart or program.

7

Or

Write a program to differentiate break and continue statements. Explain briefly.

3. Explain storage class in C.

7

Or

What is call by reference? Write a program for swapping two numbers using call by reference.

4. How are two-dimensional arrays allocated in the memory? Explain with suitable example.

7

Or

How can pointer be declared and initialized? Explain the relationship between pointers and functions.

5. Explain the different categories of functions with appropriate example.

7

Or

Write a C program giving a file which contains some integers. From this file create another two files one for odd and second for even numbers. Print the result of both files.

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(6th Semester)

MATHEMATICS

Paper: MATH-364A

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(PART : A—OBJECTIVE) (Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A (Marks: 10)

- Put a Tick (✓) mark against the correct answer in the brackets provided:
 - (a) The declaration 'unsigned u' indicates
 - (i) u is an unsigned character ()
 - (ii) u is an unsigned integer ()
 - (iii) u is a character ()
 - (iv) None of the above ()

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(b) The value of 9 + ((8%2) - 4*2) + 1 is

(i) -1 (i)) AMSHTAN

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(ii) -2 () 112015 114 (a 0 0)

(iii) 1 ()

(iv) 2 ()

(c) In case of ordinary integer variable

(i) the leftmost bit is reserved for sign ()

(ii) the rightmost bit is reserved for sign ()

(iii) no bit is reserved for sign ()

(iv) all bits are reserved for sign ()

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TREE

(d) What will be the output of the following C code? # include <stdio.h> int main () int x = 011, i; for (i = 0; i < %; i + = 3)printf ("start"); continue; printf ("end"); return 0; and the Order (i) start start (ii) start end start (iii) start start end (iv) start start start (e) In C, if you pass an array as an argument to a function, what actually gets passed? Value of elements in the array (i) First element of the array () (ii) (iii) Base address of the array (iv) Address of the last element of the arrray

WALL SHOW

(f) When do we mention the prototype of a function?
A STREET OF
(i) Defining ()
(ii) Declaring ()
(iii) Prototyping ()
(iv) Calling ()
(g) The functions fgets () and fputs()
(i) read and write strings from or to data files ()
(ii) reads and write strings from or to input output stream ()
(iii) read and write records from or to data files ()
(iv) None of the above ()

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(h)	A f	ile must be opened so that	
	<i>(i)</i>	the program knows how to access the file ()	
2 • 5	(ii)	the operating system knows what file to access ()	
	(iii)	communicative areas are established for communicating with the file ()	
	(iv)	None of the above ()	
(i)	What do 'C' and 'V' in command line arguments stand for?		
	(i)	C means argument control and V means argument vector ()	
	(ii)	C means argument count and V means argument vertex ()	
•	(iii)	C means argument count and V means argument vector ()	
	(iv)	C means argument configuration and V means argument visibility ()	
<i>(i)</i>	Wha	at is (void*)?	
	(i)	Representation of null pointer ()	
	(ii)	Representation of void pointer ()	
	(iii)	Error ()	
	(iv)	Representation of simple pointer ()	

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SECTION-B

(Marks 10)

2. Answer any five from the following questions: 2*5~10 (a) What are the four basic data types in C?

(b) What is condition operator?

for Briefly explain union.

(d) What are the disadvantages of pointers?

(e) What is the difference between a keyword and identifier?

(f) Write a brief note on typdef.

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