HY 23-C1

Subject Code: 34

DISTRICT LEVEL INTERNAL EXAMINATION COMMITTEE

HALF-YEARLY EXAMINATION 2023

COMPUTER SCIENCE (E)

CLASS - X

Full Marks: 70

Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

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a)		protocol is mainly designed for addressing packets.	
	i. POP	ii. 1P	
	iii. SMTP	iv. HTTP	
b)	operator is used to find the remainder of an integer division.		
	i. /	ii. ÷	
	iii. %	iv. None of these	
c)	The default index of an array is		
	i. 0	ii. 1	
	iii. 2	iv. 3	
d)	What kind of data type is the NULL character is associated with		
	i. char	ii. int	
	iii. float	iv. double	
e)	Which among the following is not a library function ?		
	i. total()	ii. gets()	
	iii. puts()	iv. main()	
f)	The strlen () function is associated with a specific header file. It is		
	i. <stdio.h></stdio.h>	ii. <conio.h></conio.h>	
	iii. <string.h></string.h>	iv. <array.h></array.h>	
Fill	in the blanks with appropriate words:		1x4=4
a)	A function always returns a		
b)	A loop continues to executes until the given condition is		
c)		is an exit control loop.	
d)		ving no argument is called	4.2.2
Sta	ate whether the following statements are true or false: 1x2=2		
a)	The last element of the array can be accessed by writing [n-1].		
b)	We can stop a running loop by using "case" statement before it completes its execution.		
Αn	swer the following questions in short: 1x8=8		
a)	What are the different types of IP address?		
b) c) d)	What is the function of IEEE?		
	Write the syntax of function declaration.		
	Write one advantage of using loop in our programming.		
e)	Name the statement that occurs in every loop without which the loop cannot start its		
f) g) h)	execution ?		
	What is a recursive function?		
	What is a global variable ? What do you mean by a dynamic programming ?		
	What do you n	nean by a dynamic programming :	[Contd.

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- 5. Answer the following questions (any twelve)
 - a) Write difference between MAC address and IP address.
 - b) How many types of functions are there in C? What are they?
 - c) Write a pseudocode to generate the following using nested loop.

X

ХХ

XXX

XXXX

X X X X X

- d) Write any two difference between LAN and MAN network.
- e) What is a base element? Explain with a suitable example.
- f) What is a NIC? What are the different types of NIC?
- g) What do you mean by index and position of the array elements? Explain with a suitable example.
- h) What is a caller function and a callee function? Give a suitable example to illustrate your answer.
- i) Write a C program to store your name and your mother's name in two different strings and display them separately. https://www.assamboard.com
- Write the indices of the first and the last element of the following array elements:
 char city[9] ={ 'G', 'U', 'W', 'A', 'H', 'A', 'T', 'I'};
- k) What happens when the condition of Do-While loop is wrong? Explain with a suitable example.
- I) Write any two features of functions in C.
- m) Write a program strategy to find out the largest element in an array.
- n) What is a nested loop? How does the inner loop works inside a nested loop?
- 6. Briefly write the answers for the following questions:

3x2=6

- a) Explain the three demerits of array.
- b) Explain the different parts of a function with a suitable example.
- 7. Write descriptive answers to the following questions:

4x4=16

a) Write a C programming code to generate the following output:

1

123

12345

1234567

123456789

- b) Write a C program to accept few elements in the array from the user and print the even numbers within the array and also count how many even numbers exists in the array. Calculate the sum of the even numbers.
- c) Write a C program and define a recursive function to find the summation of the first N
- d) Write a C programming code to find the factorial of any given number by the user using an 1x4=4user defined function.
- Define the following terms: 8.
 - Third party client software ĺ.
 - ii. Loop
 - Library function iii.
 - Return type of a function İV.

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