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Total	No.	of	Questions -	[4

Total No. of Printed Pages: [3]

G.R. No.	

PAPER CODE UIS

U113-202B (12) 2019

Dec 2023 (Backlog) EXAM

F.Y. B. TECH. (PATTERN 2018)

course name: Computer Fundamentals (CB)

COURSE CODE: CS10182B-CB

Time: [2Hr]

[Max. Marks: 60]

- (*) Instructions to candidates:
- 1) Use of scientific calculator is allowed
- 2) Use suitable data where ever required
- 3) All questions are compulsory

Que.	Question Description	Max.	CO	BT
No.		Marks	mapped	Level
Q1.	Choose the Correct options			
	A. C is	[2]	- 1	Understand
	a. An assembly language			
	b. A third generation high level language			-
	c. A machine language			
	d. None of the above	ļ <u>.</u>		
	B. Who invented the high level language "C"?	[2]	1,2	Understand
	a. Dennis M. Ritchie			
	b. NiklausWrith			!
	c. Seymour Papert			
	d. Donald Kunth			
	C. Find out on which line number you will get an error?	[2]	1,2	Apply
	a. Line 1: void main ()			
	b. Line 2: {			
1	c. Line 3: print("\n Hello World")			
	d. Line 4: } D. Which of the following is invalid?	[2]	1	Understand
	1	[2]	1	Onderstand
	a	1		
	D			
	c. 'a' d. 'abc'			
		[2]	1,2	Understand
		[2]	1,2	Onderstand
	a. 1 byte b. 4 bytes			·
ļ	l			
i 	c. 8 bytes d. 16 bytes			
	F. All keywords in C are in	[2]	1	Understand
	a. LowerCase letters	[2]	•	Ondorstand
	b. UpperCase letters			
	c. CamelCase letters			
	d. None of the mentioned			
<u> </u>	G. Find Out of program	[2]	1,2	Apply
	#include <stdio.h></stdio.h>	[-]	1,5	· • • • • • • • • • • • • • • • • • •
	int main()			
	{			
			l	L

			
printf("Hello World! %d \n", x);			
return 0;			
}.		•	1
a. Hello World! x;	1	Ì	
b. Hello World! followed by a junk value	-		
c. Compile time error d. Hello World!			
H. The format identifier (0/1):			
a. char data typ	e? [2]	1,2 Understa
b. int		_	Cildersia
c. float	1		
d. double	- 1		
I. What is the output of below program.?			
#include <stdio.h></stdio.h>	[2	2]	2 Apply
int main()	- 1		
\			
float $x = 'a';$			1
printf("%f", x);		1	
return 0;			
a. a b. run time error	- 1	- 1	
c. a.0000000		1	
d. 97.000000		·	
J. Which among the following is NOT a relational			
operator?	[2]	2	Understand
a. &&			- Cardon Starre
b. ==			
· c. <			
d. =	-		
K. Which of the following sorting algorithms has the lowest worst-case complexity?	- [0]		
ompiexity:	[2]	1,2	Apply
a. Merge Sort			
b. Bubble Sort	1	1	
c. Quick Sort	.		
d. Selection Sort			
L. What is the worst case complexity of bubble sort? a. O(nlogn)	[2]	- 2	Annly
b. O(logn)		1	Apply
c. O(n)	1	1.	1
$d.O(n^2)$	1	1	1 1
M. The given array is arr = $\{1, 2, 4, 3\}$ Public			
of the direction of the street one will the st	[2]	1,2	Apply
dono to sort the array?			'''
a. 4			
b. 2			
c.1			
d. 0	.		1
N. Linear Search is best for?	[2]	1.0	-
a. Large arrays	[2]	1,2	Understand
b. Small or Large, but unsorted arrays c. Small arrays	1		
o. Smail allays			1

-	d. Small or Large, but sorted arrays			
	O. The number of interchanges required to sort 5, 1, 6, 2 4 in ascending order using Bubble Sort is	[2]	2	Apply
	, a. 6	. -		rippiy
	b. 7 c. 5			
	d. 8			
Q.2	a) Write C program to swap two numbers using call by Value?	[4]	3	A 1
	b) Create own function for nonformation 6 ii			Apply
	string to the end of another string. OR	[6]	2,3	Understan
1	c) Write C program to find out factorial using recursion function?	[6]	2,3	Apply
	d) Define Object-oriented programming and Give Examples of OOP languages	[4]	2.4	Understand
	Compare between Procedure oriented programming and Object oriented programming	[6]	2,4	Understand
	OR O	r _C 1		
	Compare function and inline function.	[6]	2,4	Understand
(0)	Define an embedded system? Write characteristics	[4] [6]	2,4 2,4	Understand
0	PR	[م]		Understand
(3)	Explain Virtual function with example.			