Tuesday, 28 October 2025

9:45 AM



Programmin g for Poble...



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Printed Page: 1 of 2 Subject Code: BCS101

Roll No:

BTECH (SEM I) THEORY EXAMINATION 2023-24 PROGRAMMING FOR PROBLEM SOLVING

TIME: 3HRS

M.MARKS: 70

Note: 1. Attempt all Sections If require any missing data, then choose suitably

SECTION A

<u>. </u>	Attempt all questions in brief.		2 x 7 = 14	
Q no	Question	Marks	C	
A	Define Syntax. Write the importance of Syntax in programming	2	1	
Ь	Draw the Memory Hierarchy according to the Access time	2	1	
c.	Differentiate Between Operator and Operands	2	2	
d.	Define Conditional Operator with an example.	2	2	
•	Find the Output of Code: void main () { int a, b; for (a = 6, b = 4; a <= 24; a = a + 6) { if (a % b = 0) { if (a % b = 0) } printf("%d",a); }		3	
	Write the importance of base value in recursive function.	2	4	
2	Predict the output of following program #include <stdio.h> int main() { int a = 12; void *ptr = (int *)&a printf("%d", *ptr); getchar(); return 0;</stdio.h>	2	5	

SECTION B

	SECTIONS		
2.	Attempt any three of the following:	7 x 3 =	= 21
a.	Explain the Storage Classes used for the storage of the Data in C		1
b.	Discuss the Concept of Type Casting and Type Conversion with the Program.	7	2
c.	Write a program to print the pattern	7	3
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4	Write a Program to print the Fibonacci Series up to the user's choice	7	4
-	the she agrees in which the function calls itself	7	5
e.	Write the Short notes on	′ \	,
	(i) Linked list	1	
	(ii) macros		
_			
	SECTION C	7 x 1 = 7	
3.	Attempt any one part of the following:	7	Ť
a	Evaluin the Digital Computer with proper architecture.	7	÷
b.	Define Algorithm. Write the Algorithm for the greatest of three numbers	'	١.
	and Draw its flow chart.		
		7-1-	- 7
4.	Attempt any one part of the following:	7 x 1 :	12
a	Illustrate the Concept of Operator Precedence and Associativity with	7	4
-	Example		-
Ъ.	Write a Program to discuss the use of break in Switch Statement.	7	2_
			_
5.	Attempt any one part of the following:	7 x 1	
a.	Write a Program to check whether the entered number is prime of not.	7	3
b.	Write a Program to print the multiplication of two-dimensional matrices	7	3
٥.	with m*n dimensions.	L	
_	Widt in it differences.		
6.	Attempt any one part of the following:	7 x 1	
_	Write a Program to print the greatest number of an array using the array	7	4
a.	seesing to function concept		_
b.	Define Sorting. Explain the Bubble sort technique and write the	7	4
D.	Program to implement the bubble sort.	L	
_	Program to implement the observers.		
_	the following:	7 x 1	= 7
7.	Attempt any one part of the following: Define file. Write the modes of file handling. Write a program in C to		5
a.	Define file. Write the modes of the handing. Write a program in		
	write multiple lines to a text file.	7	15
b.	Define calloc function. Write the Program to print the sum of elements	Ί΄	1
1	initialized at the dynamic memory allocated by the user.		

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include KSTONO

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