

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: BCAC 101 Programming for Problem Solving UPID: 100046

Full Marks:70 Time Allotted: 3 Hours

The Figures in the margin indicate full marks. Candidate are required to give their answers in their own words as far as practicable

		Group-A (Very Snort Answer Type Guestion)	
	A no.	wer any ten of the following:	[1 x 10 = 10]
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	(11)	and the second of the second o	
	(11)		
	(IV)		
	(v)		
	(VI)		
	(VII)	The second secon	
		Which character can be used to begin a new line in C?	
	(IX)		
	(X)		
	(XI)		
	(XII)		
		Group-B (Short Answer Type Question)	
		Answer any three of the following	[5 x 3 = 15]
2.	Wh	nat are the key features in the C programming language?	[5]
3.		nat is the use of printf() and scanf() functions?	[5]
4.	Wh	at is difference between void main() and int main()?	[5]
5.	Wh	at is the use of function in C?	[5]
6.	Wh	at are the differences between the local variable and global variable in C?	[5]
		Group-C (Long Answer Type Question)	
		Answer any three of the following	[15 x 3 = 45]
7.	(a)	Write a C program to find sum of series of the following series for n number of terms. 1+x+x^2++x^n	[7]
	(b)	What is switch case in c? Explain with example.	[8]
8.	(a)	What is a function pointer? Explain with example.	[8]
	(b)	Difference between Entry controlled and Exit controlled loop?	[7]
9.		Write a program in C to make such a pattern like a pyramid for n number of lines, where n is taken from user as input.	[5]
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	(b) \	Write a C program to calculate the factorial of a given number	[5]
	(c) \	What is a built-in function in C?	[5]
10.	(a) \	What are the advantages & disadvantages of using pointers in C?	[5]
	(b) V	What is a null pointer?	[5]
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(c) What is void* (void pointer)?

[5] [15]

11. Define a structure type struct personal that would contain person name, date of joining and salary as members. Now, use this structure to read information of n (taken as input) number of persons and print the same on screen.

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