Roll No.

Total Pages : 03

BT-I/D-21 41038 PROGRAMMING FOR PROBLEM SOLVING ES-105A

Time : Three Hours]

[Maximum Marks : 75

8

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Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1.	(a)	Solve the following :	
		(i)	$(9AB3)_{12} + (74A5)_{12}$
		(ii)	$(2452)_8 - (624)_8$

(b) What is the difference between an algorithm and pseudocode ? Also write an Algorithm and pseudocode for solving a quadratic equation. 7

2. (a) Solve the following :

- (i) $(AC2F.CD)_{16} = (?)_8$
- (ii) $(463)_8 (132)_8$ using 8' complement.
- (b) What do you understand by flow chart ? Draw flow chart for sort the array.9

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Unit II

3.	(a)	Write a program to reverse the digit of a number. 8			
	(b)	Write a program to find the roots of a quadratic			
		equation. 7			
4.	(a)	Write a program to find sum of the following			
		equation : 8			
		$1 - X^3/3! + X^5/5! \dots X^n/n!$			
	(b)	Write a program to find the whether a character is			
		vowel or not using switch statement. 7			
	Unit III				
5.	(a)	Write a program to reverse the string without using			
		string function. 8			
	(b)	How can array be passed to a function ? Explain			
		with suitable example. 7			
6.	(a)	Write a program to check string for palindrome			
		without using string function. 7			
	(b)	Write a program for returning arrays from functions.			
		8			
		Unit IV			
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7.	(a)	How can the record be handled in C language	
		using union ? Explain with suitable example.	7

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	(b)	Write a program to handle string-using pointer.
		8
8.	(a)	Explain the operators used on pointers with
		example. 7
	(b)	Explain the use of structure within structure with
		suitable example. 8

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