Roll No	••••••	Total Pages: 03		
	BT-I/D-21	41038		
PROGE	RAMMING FOR PROP ES-105A	BLEM SOLVING		
Time : Th	ree Hours]	[Maximum Marks : 75		
Note : A	ttempt Five questions in all,	selecting at least one		
_	uestion from each Unit. All arks.	questions carry equal		
	Unit I			
1. (a)	Solve the following: (i) $(9AB3)_{12} + (74A5)_{12}$ (ii) $(2452)_8 - (624)_8$	8		
(b)	What is the difference between pseudocode? Also write pseudocode for solving a quantum process.	an Algorithm and		
2. (a)	Solve the following: (i) $(AC2F.CD)_{16} = (?)_8$ (ii) $(463)_8 - (132)_8$ using $(36)_8 - (132)_8$	68' complement.		

(b)

chart for sort the array.

What do you understand by flow chart? Draw flow

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Unit II

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

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