BT-2/M-24

42035

PROGRAMMING FOR PROBLEM SOLVING ES-105A

ne: Three Hours]

[Maximum Marks: 75

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

Unit I

1.	(a)	Elaborate block diagram of computer.	. 5
	(b)	Differentiate compiler and interpreter.	5
	(c)	Write a short note on debugger, linker, loader a	nd
	7/5	assembler.	5
4.	(a)	Discuss various types of memory in detail.	6
	(b)	Solve the following:	9
		(i) Convert $(6735.47)_8$ into $()_{10}$	
		(ii) Convert (59FD,4D) ₁₆ into () ₁₀	
		(iii) $(126)_8 - (375)_8$	

Unit II

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3.	(a)	Discuss various storage classes in C language.
	(b)	Write a C program to find area of a circle.
	(c)	Write a C program to check whether a character is
		a Vowel or Consonant.
4.	(a)	Write a C program to print factorial of a number
		5
	(b)	Write a C program to print days of week using
		switch statement.
	(c)	Elaborate different iterative statements with suitable
	. Ass	examples. 5
		Unit III
5.	(a)	Discuss different parameters passing techniques with
		suitable example. 7
	(b)	Write a C program to print Fibonacci series using recursion.
6.	(a) ·	Write a C program to concatenate two strings
		without string function.
	(b)	Elaborate array how the length of array is calculated
		Write a C program to multiply two matrices.

Unit IV

7.	(a)	Elaborate pointers. Write a C program to print arra	IJ
		of pointers.	8
	(b)	Differentiate structure and union. Write a C program	n
		to print union.	7
8.	(a)	Explain various file operations in C with suitable	e
		example.	7
	(b)	Write short notes on the following:	8
		(i) Pointers and string	
	dl (30)	(ii) Dynamic memory allocation.	