TED (10)	- 1018	Reg. No
(REVISION -	— 2010)	Signature
	LOMA EXAMINATION IN ENGINEE NAGEMENT/COMMERCIAL PRACTIC	
*	PROGRAMMING METHODO	LOGY
		[Time: 3 hours
,	(Maximum marks : 100)	
	PART — A	
	(Maximum marks : 10)	*
	(Marks
I Aı	nswer all questions in one or two sentences. Each	question carries 2 marks.
1.		
2.	If the variable Hours = 10, what is the value of following instruction has been executed: Set Sala	the variable Salary after the ry = Hours * 8.
3.	How many times "Good Morning" is get printed	?
	for (i=2;i<10;i++)	
	write "Good Morning"	La company and the
	endfor	terial cabe en entre en
4.	Declare a one dimensional array to store marks	
5.	What is recursion?	$(5 \times 2 = 10)$
	PART — B (Maximum marks : 30)	
II Ans	swer any five of the following questions. Each quest	tion carries 6 marks.
1.	Explain six relational operators.	
2.	Write a pseudo code to read a number and print v 10 or not.	whether it is divisible by
3.	Explain CASE structure.	
4.	Write a pseudo code to print the multiplication tab	le of a given number.
5.	Write a pseudo code to declare a matrix having 5 read the elements to the matrix.	rows and 6 columns and
6.	Write a pseudo code to read 10 elements to an ar	rray and display it.

With an example explain how values can be passed from a main program to a

7.

[93]

subprogram.

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 $(5 \times 6 = 30)$

[P.T.O.

Marks

PART — C

(Maximum marks: 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

Unit — I

Ш	(a)	Write an algorithm to read principal amount (P), interest rate (R), number of years (N) and print the interest. (Interest I=PNR)	
	(b)	Draw the flow chart for the above problem.	6
	(c)	Write a pseudo code for the above problem.	5
		OR	
IV	(a)	Explain any 3 flow chart symbols.	6
	(b)	List the steps in program development cycles. Explain.	9
		Unit — II	
V	(a)	Differentiate pre-test and post-test loop.	6
	(b)	Write a pseudo code to read a month number (from 1 to 12) and print the corresponding month (1-January, 2-February).	9
		OR	
VI	(a)	Explain the syntax of while loop with the help of a block diagram.	6
	(b)	Write a pseudo code to read two numbers and find sum all the numbers divisible by 5 between them (both numbers - limits- are excluded).	9
		Unit — III .	
VII	(a)	Explain linear search with the help of an example.	7
	(b)	Write a pseudo code to find the sum of the first row of a 3×3 matrix.	8
		OR	
VIII	(a)	What is a string? Explain.	6
	(b)	Write a pseudo code to find the largest number in an array.	9
		Unit — IV	
IX	(a)	Explain scope of variable.	6
	(b)	Write a pseudo code to read sides of a rectangle (b and h). By using a subprogram, find the area of the rectangle.(Area $A = b \times h$) OR	9
X	(a)	Write a short note on subprogram.	6
	(b)	Write a pseudo code to find the factorial of a number using recursion.	9