Please check that this question paper co	ontains 09 questions	and 02 printed page	es within first te	n minutes.
[Total No. of Questions: 09]			[Total N	lo. of Pages 02
University Roll No				MORNING
	Program: B.Te	ech (Batch 2018 or	ıwards)	1 0 MAY 2023
	Semester: 1st	•		
	Name of the S	Subject: Programm	ning for Proble	m Solving
	Subject Code:	ESC-104		
	Paper ID: 1593	35		
	Scientific calcu	ulator is not allow	ed	
Time Allowed: 03 Hours			Max	Marks: 60
 Part A & B are compulsory. Part-C has TWO questions Q Any missing data may be ass 	8 and Q9. Both are	e compulsory but	with internal c	choice.
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	Part-A		ľΝα	arks: 02 each]
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Q1. Write short notes on:			: : : : : : : : : : : : : : : : : : : :	
a) What is an Algorithm? Give ϵ	example.			
b) Define pointers? Give examp	ole.			
c) What is a complier? What is	its use?			
d) Define data types. What are				
e) What is the need and import	ance of operating	system?		
f) Write the syntax of for loop.		•		
	Part-B	er er	[Ma	arks: 04 each]
Q2. Define Flowchart. Draw flow	chart to find the l	largest of three nu	ımbers.	
Q3. Draw a neat Block diagram o	f computer syster	n and explain its c	omponents.	
Q4. What are operators? Name t	he categories. Giv	e example of each	n.	
Q5. Differentiate between while				
Q6. Define array. Explain 1-D and	d 2-D array with ex	kample.		
Q7. Write short notes on the follo		•		
a) break statement.				
b) continue statement.				

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Part-C

[Marks: 02 each]

Q8. Write a program to find the sum of two matrices(2-D arrays).

Or

Write a program to sort a given array [21, 17, 13, 32, 27, 11, 24, 19] in ascending order.

Q9. Define Functions. Explain different types of functions available in C language. What are the different methods through which parameters are passed to a function? Write example program of each.

Or

Define Recursion. Write a program to find out factorial of given number using recursion.
