Q. P. Code: 40226

Max. Marks: 80 \(\mathbb{E}(\mathbb{E}\mathbb{A}\mathbb{M})\)

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1.		

2.	Answer	any thre	e out of remaining	five	questions	

Question No.1 is compulsory

Q. 1 a.	Define algorithm. Write algorithm to calculate Fibonacci series.	04		
b.	Explain conditional operator with example.			
c.	Differentiate between structure and union.	04		
d.	Explain stremp, streat functions from string.h	04		
e.	Compare if-else ladder and switch control structure.	04		
Q. 2 a.	Write a program to sort elements of array in descending order.	10		
b.	Explain parameter passing with the help of call by value and call by reference. Give example.	10		
Q. 3 a.	Explain in detail the concept of structured programming. Define flowchart. Draw flowchart to check given number is prime number or not.	08		
b.	Write a program to calculate GCD and LCM of given number.	07		
C.	Explain concept of recursion with example.	05		
Q. 4 a.	Write a program to count vowels, consonants and blank spaces in a given string.	08		
b.	Explain all bitwise operators in C.	06		
c.	Write a program to print following pattern. A A B A B C A B C D	06		
Q. 5 a.	Explain different storage classes in C.	10		
b.	Write a program to create a user defined functions to read matrix, to perform matrix multiplication and to display result matrix.	10		
Q. 6 a.	Explain structures in C. Write a program to create structure for cricket player to store his name, number of matches played, number of runs, strike rate. Write a program to store records of 10 cricketers. Display the records according to their runs in ascending order.	10		
b.	Explain different file handling functions in C.	05		
C.	Write a program to reverse a given string.	05		
