Total N	umber of Pages: 02	210	210	210	210 B.T. BE	
	1 st Ser	mester Back F PROGRAM BRANCI				
210	210	Max M	3 Hours arks: 70 E: Y723	210	210	
A	Answer Question No. The figures		npulsory an	-		
Q1 ¹⁰ a)	Answer ethe following What do you mean be	• .	210	210	²¹⁰ (2 x	10
b) c) d) e) f)	Differentiate between What is a pointer? What do you mean by What is a static storal What do you mean by	y recursion? ge class? y Call by refere	nce?			
210 g) h) i)	What are different op What are various con Find the output of the int main()	stants used in (210	210	
210	int i=0; for(; i<=5; i++); printf("%d", i); return 0;	210	210	210	210	
j)	Find the output of the int main()	following progr	ram.			
	{ int fun(int); int i = fun(10);	210	210	210	210	
210	printf("%d\n",i); return 0;	210				
210	printf("%d\n",i);					

Q2	a)	Why "switch" Statement is used? Design a Menu based program for addition, subtraction, multiplication and division of two complex numbers.	(5)	
210	b)	Write a 'C' Program to print all Prime integers in between a given range. The Upper Limit and Lower Limit for that range are to be given by the user through keyboard.	(5)	210
Q3	a) b)	Write a Program in 'C' to find the Inverse of a 3X3 Matrix. Write a Program to input two 3X3 Matrix and multiply them. Display both input Matrix and resultant Matrix. Use separate function for input, multiplication and display.	(5) (5)	210
Q4	a)	Write a program to find the Least Common Multiple and Highest Common Factor of two numbers. Use separate function for LCM and HCF calculations.	(5)	
210	b)	Write a 'C' Program that takes a string as single parameter and returns the integer '1' if the string is "Palindrome", otherwise '0' should be returned."	(5)	210
Q5	a)	What do you mean by "Function Recursion"? Write a Program to find p ^q for given values of 'p' and 'q' using function recursion.	(5)	
	b)	Write a 'C' Program to input a string and then return the Largest Word.	(5)	
Q6 °	a)	Write a Program using Structure to enter the Name, Roll No. and Six ²¹⁰ Subjects marks for each student. Find the total and average marks of each student and also the average marks in each subject in a class of 30 students.	(5)	210
	b)	Differentiate between "Function to Pointer" and "Pointer to Function". Explain each concept with suitable example.	(5)	
210 Q7	a)	Write a Program in 'C' to create two text files. Provide user defined function that accepts the names of the above two files as arguments and return '1',if the number of characters are same in both files or else it will return '0'.	(5)	210
	b)	Write a Program for the addition of two integers using Command Line Argument.	(5)	
210		210 210 210 210 210		210
Q8	a) b) c) d)	Write short notes on the following (Any Two): Enumeration Macro Command line arguments Self-referential structure	(5 x 2)	
210		210 210 210 210 210		$Page^{D}_{P}$