



C\$/BCA(C)/ODD/SEM-1/1000081/2024-2025/I055



1

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: 8CAC102 Programming for Problem Solving through C UPID: 1000081

Time Allotted: 3 Hours

Full Marks: 70

The Figures in the margin Indicate full marks

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

Answer any ten of the following:			$[1 \times 10 = 10]$	
	(i) Linker converts source program into machine code. (State True/False)			
	(11)	The expression -11%-3 evaluates to		
	(HI)	What will be the output of the following code segment?		
		Int a=0;		
		Switch(a)		
		5000 0		
		Case 0: Default: printf/"default"):		
		Default: printf("default"); Case 1: printf("a=%d",a);		
		}		
	('V)	C performs bound checking for array.(state true/False)		
	(V)	Size of a pointer is equal to the data type it points to. (State True/False)		
	(VI)	By default any user defined function returnstype of data.		
	(VH)	FILE is of type		
	(V III)	What is the program that translates source code into object code?		
	(IX)	^ is aoperator.		
	(X)	What is the final value of x when the code int x; for $(x=0; x<10; x++)$ { } is executed?		
	{XI}	Binary search works on sorted arrays. (State True/False)		
	(XII)	How we can combine the following two statements into one using char *p; p = (char*) malloc(100)); -	
Group-B (Short Answer Type Question)				
		Answer any three of the following:	[5 x 3 = 15]	
2.	Hov	wwill you pass parameters to a function? Write a function that will compute y=x^n where x and n ar	re (5)	
-		itive integer numbers.		
3	Disc	cuss the use of fscanf() and fprintf() functions. Give some suitable examples.	[5]	
4.	Con	wert (29) ₁₀ to binary and (1011101) ₂ to hexadecimal number system.	[5]	
5.	Wha	at is bitwise operator? Give suitable examples? Write a program to swap the values between two	[5]	
	vari	ables without using third variable.		
6.		nd the output of the following:	[5]	
		r p[] = "%d\n";		
	-] = 'c';		
	prin	ntf(p, 65);		
	b) #	include <stdio.h></stdio.h>		
	V	oid main()		
	{			
		int k = 5;		
		int *p = &k		
		int **m = &p printf("%d%d%d\n", k, *p, **m);		
	}	hunted someone to that Et and		
	•			

Group-C (Long Answer Type Question)

Answer any three of the following:

 $[15 \times 3 = 45]$



ALL EXAMS, ONE SUBSCRIPTION



1,00,000+ Mock Tests



Personalised Report Card



Unlimited Re-Attempt



600+ Exam Covered



25,000+ Previous Year Papers



500% Refund

















ATTEMPT FREE MOCK NOW





a)State and explain call by value and call by reference with suitable examples. b)State and explain different types of storage classes with suitable examples. c)Explain function with return and function with arguments with suitable examples.	[5+5+5]
(a)Differentiate between i)break and continue ii)entry controlled loop and exit controlled loop. (b) Write a 'C' program to check whether a given number is prime or not.	[8+7]
 a) Write a program to delete an element from a given location of an array of integers. b) Write a program to check whether a given string is palindrome or not. 	[7+8]
10. i)Explain Recursive function with example. II)Differentiate between Type Casting and Type Conversion with example. III)Differentiate between Embedded C and Traditional C.	[3+7+5]
 a) Write short notes on fseek() and rewind(). b) Write a program which creates a file named TEXT, enter 10 integers in the file and then read and print them from that file. 	[8+7]

*** END OF PAPER ***

