Total No. of Pages: 3

## OCT\_NOV\_2024 WINTER EXAMINATION

12329 Bachelor of Computer Application (BCAsci) NEP 2.0

Sub. Name: Problem Solving Techniques Sub Code: 109809

		Sub. Code: 109809	
Day and I	Date: :30 A	FEBRUARY ,18-02-2025 M To 12:30 PM	Iarks: 60
		1. Figures to the right indicate full marks	
		Que.1 and Que. 7 are compulsory. Attempt any THREE questions from Q.No.2 to Q.No. 6.	
Q1) Sol		llowing MCQ.	[10]
i,	Wh	en an algorithm is written in the form of a programming language	, it
	bec	comes a	
	Δ	A. Flowchart	
		3. Program	
		C. Pseudo code	
		D. Syntax	
		ystem wherein items are added from one and removed from the other en	d.
ii.			
		A. Stack	
		3. Queue C. Linked List	
		Georgia Maria and Company and	
		D. Array	- io
iii.	ln v	which type of control structure no statement is skipped and no on	e is
1111-		eated?	
		A. Sequence 3. Selection	
		C. Repetition  D. All	
- mr.	Δςς	sembly language is a level programming language.	
iv.		A. High	
1017	-	RIOW	
		C. Machine	
[01]	ת	). None of these	
	D		
[03]	ΔΩ	CII stands for?	
٧.		Ciable Code in international interest	
Park V		Ctondard (:ase II) IIIs[[[u[iorial intorolial is	
		. Otapara Code in initiation into orange	
	שג	American Standard Code for Interchange Information	
	U	7. American	P.T.O.

vi.	The 1's complement of binary number 0101 is  A. 1001	
	Digital and the second	
	B. 0111 C. 1011	
	D. 1010	
vii.	In the statement ++variable; ++ is used as	
	A. post-increment operator	
	B. pre-decrement operator	
	€. pre-increment operator	
	D. post-decrement operator	
viii.	The 'break' statement cannot be simply used within	
VIII.	A. do-while	
	-B. if-else	
	C. for	4
	D. while	
ix.	What is the purpose of return statement in a function?	
	A. To declare the function's return type	
	B. To exit the program	
	C. To return a value from the function	
	D. To define a function	
X.	What is the highest index for an array with 10 elements in C?	
	-A. 5	
	B. 9	
	one C. 10. Same A and for the summing for last the substitution of the summer for last the summer for the summe	
	D. 11	
_		F4.01
E	xplain problem solving steps with suitable example.	[10]
اما	entify different kinds of repetitions in the problem	[40]
Iu	entify different kinds of repetitions in the problem.	[10]
υi	scuss different generations of programming language.	FA 63
וט	scuss different generations of programming language.	[10]
Fx	plain the process of binary search with suitable example.	[40]
	planting process of smary scaron with suitable example.	[10]
Н	ow to translate algorithm in C program? Illustrate with suitable example.	[40]
110	ow to translate algorithm in a program. Indutate with suitable example.	[10]
W	rite short notes (Any Four)	70.07
		[20]
a.	Role of Data Structures in Problem Solving	P ma m
	and the specific of the second	[5]
b.	Operator Precedence and Associativity	
	of branchet spendentel some of here	[5]
	[2]	P.T.O.
		: . i . U .

Q2)

Q3)

Q4)

Q5)

Q6)

Q7)

C.	Flowchart	<b>QP-3261</b> [5]
d.	Characteristics of Algorithms	[5]
е.	Switch Case statement	[5]
f.	Becursion	[5]

## **End Of Question Paper**

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -This Question Paper may be distributed for following Subjects as common code. सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (12329) Bachelor Of Computer Application (NEP2.0)

(109809) Problem Solving Techniques

Part 1 SEM 1