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Total No. of Questions: 11]

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BC-198

B.C.A. (Part-I) Examination, 2022 PROGRAMMING IN C++

Paper - BCA-103

Time: 3 Hours [Maximum Marks: 70

Section-A (Marks : $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit 50 words). Each question carries 2 marks.

Section-B (Marks : $4 \times 5 = 20$)

Note: Answer all five questions. Each question has internal choice (Answer limit50 words). Each question carries 4 marks.

Section–C (Marks: $10 \times 3 = 30$)

Note: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- 1. (i) What is Token? Explain.
 - (ii) What is data abstraction? Explain.
 - (iii) Explain goto statement in C++.
 - (iv) What is recursive function? Explain.

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		(v)	Explain class and object.					
		(vi)	What is Array of pointer	? Ex	plain			
		(vii)	What is Abstract Class in	C++	- ? E	xplain.		
		(viii)	What is Constructor ? Ex	plain				
		(ix)	What is Operator Overloa	ading	? Ex	plain.		
		(x)	Explain features of C++	11.				
				Sec	ction-	-В		
	2. Explain concept of object oriented programming.							
					Or			
		What	t is type conversion? Expla	ain ty	pes c	of type of	conversions in C++.	
	3.	3. What is function overloading? Explain it with suitable example.						
					Or			
		Differ	rentiate Pass by Value and	Pass	by R	eference	with suitable example.	
	4.	4. Write a program to check a given string is palindrome or not palindrome.						
					Or			
		Expla	ain instance variables and me	embei	r func	tion of	a class using suitable example.	
	5.	What	t is method overriding? Ex	kplain	with	suitabl	e example.	
					Or			
	What is Copy Constructor? Explain with suitable example.					e example.		
6. Differentiate Compile time and Run time polymorphism.							orphism.	
					Or			
		Write	e a program to overload U	nary+	++ oj	perator 1	using friend function.	
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Section-C

- 7. Explain the following with suitable example :
 - (a) Dynamic Binding
 - (b) Constants
 - (c) Scope of Variable
 - (d) Conditional Operator
 - (e) Cascading of input and output operator
- 8. Write a program using recursive function to find out factorial of a given number.
- 9. (a) Write a program for matrix multiplication.
 - (b) Write a program using class and object to calculate total marks and percentage of a student.
- 10. (a) What is multipath inheritance? Explain with suitable example.
 - (b) Explain constructor invocation in inheritance.
- 11. What is Template? Explain Function template and Class template with suitable example.