

PBI-003-001312]

PBI-003-001312 Seat No. _____

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B. Sc. (Sem. III) (CBCS) Examination November / December - 2018

CA - 301 : Data Structure & OOP With C++ (Old Course)

Faculty Code: 003 Subject Code: 001312

Time	e : 2	$\begin{bmatrix} \frac{1}{2} \end{bmatrix}$ Hours] [Total Marks :	70
Inst		ions: Answers for all must be written in your answer sheet.	
	(2)	Figures on the right indicate full marks.	
1	Atte	mpt all:	20
	(1)	The name of constructor is same as name of	
	(2)	Constructors are of types.	
	(3)	If name of all functions are same, then its called	
	(4)	There are types of inheritance.	
	(5)	OOPS stands for	
	(6)	C++ was developed by	
	(7)	Function overloading is feature of concept of OOP.	
	(8)	The members of class are in default.	
	(9)	The static member variable is initialize to when	
		object is created of class.	
	, ,	The constructor can take parameters (True/False)?	
	` ′	The virtual function should be declared in class.	
	` ′	We can create object of abstract class. (True/False)?	
	(13)	Which keyword is used to specify operator overloading	
	(1.4)	function?	
	(14)	Which type of inheritance one class derive from more	
	(15)	than one base class?	
		Constructor is called when of class is created.	
		A class defined inside of class is called	
	(11)	If user insert new value to stack, operation perform.	
	(18)	Stack allocation is	
		If the user delete value to stack operation	
	(13)	perform.	
	(20)	There are types of link list.	
	(20)	inere are types of mik inst.	

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2	(a)	Define following concept with examples (any three) (1) Class (2) Array (3) Constructor (4) fopen () (5) fclose () (6) fprint ()	6
	(b)	Attempt following questions: (any three) (1) Explain Friend function with example. (2) Explain Base Class with example. (3) Explain scope resolution operator. (4) Explain operator overloading, with example. (5) Differentiate Static Array v/s Dynamic Array. (6) Explain User Defined function with example.	9
	(c)	Attempt following questions: (any two) (1) Explain stack with example. (2) Explain Simple queue with example. (3) Explain Single Link List. (4) Explain Multilevel Inheritance with example. (5) Explain Pointer.	10
3	(a)	Define following concept with example: (any three) (1) Destructor. (2) Recursion. (3) Inline function. (4) Abstract Class. (5) fgets (). (6) Pure virtual function.	6
	(b)	 Attempt following questions: (any three) (1) What is call by value and call by reference? Give appropriate example. (2) Explain This pointer with example. (3) Differentiate stack v/s queue. (4) Differentiate overloading v/s. overriding. (5) Explain new and delete in C++. (6) Explain doubly link list with example. 	9
	(c)	Attempt following questions: (any two) (1) Explain virtual base class. (2) Explain multiple inheritance. (3) Write a programme which overload operator + (plus (4) Write a programme to implement stack. (5) Explain parameterized constructor.	10 s)