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Enrollment No.....

Faculty of Science End Sem (Odd) Examination Dec-2018

BC3SE01 OOP using C++

Programme: B.Sc. (CS) Branch/Specialisation: Computer

Science

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

.1 (1	TOQ.	s) should be written in run instea	ad of only a, o	, c or a.	
Q .1	i.	C++ language was invented by	y		1
		(a) Bjarne Stroustrup	(b) Dennis Rite	che	
		(c) Ken Thompson	(d) None of the	ese	
	ii.	Pick out the definition of object	cts		1
		(a) Member of the class	(b) Instance of	the class	
		(c) Associate of the class	(d) Attribute of	f the class	
	iii.	Which of the data type is parameters?	used to rep	present the absence of	1
		(a) Int (b) Short	(c) Void	(d) Float	
	iv.	The new and delete are: -			1
		(a) Operators	(b) Keywords		
		(c) Both (a) and (b)	(d) None of the	ese	
	v.	\mathcal{E}			
		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	(c);	(d) None of these	
	vi.	The destructor is executed who	en: -		1
		(a) Object goes out of scope			
		(b) When object is not used			
		(c) When object contain nothing	ng		
		(d) None of these			
V	vii.	When the inheritance is privatin the derived class.	te, the private	method in base class are	1
		(a) Inaccessible	(b) Accessible		
		(c) Protected	(d) Public		
	viii.	Dynamic binding is done using	g the keyword	: -	1
		(a) New (b) Virtual	(c) Inline	(d) Void	
				P.T.O	О.

	ix.	The eof() stands for:		1
		(a) End of file (b)	o) Error opening file	
		(c) Error of file	d) None of these	
	х.	Pick out the correct answer:		1
		(a) Exception are not suitable for	or critical points in code	
		(b) Exception are suitable for cr	ritical points in code	
		(c) Both (a) and (b)		
		(d) None of these		
Q.2	i.	What do you mean by message	passing?	2
	ii.	Explain any three applications of	of OOP's.	3
	iii.	Define working of compiler and	d linker.	5
OR	iv.	Explain the key concept of OO	P's.	5
Q.3	i.	How it is possible the use of co	mma operator in place of semi-colon.	4
	ii.	Explain ifelse and write a expression.	program to execute if without any	6
OR	iii.	Write a program to display alph	nabets from A-Z using for loop.	6
Q.4	i.	Define static data member & sta	atic member function.	3
	ii.	What do you mean by consexample.	structor and its types explain with	7
OR	iii.	Define function with inline and	friend function with example.	7
Q.5	i.	Define abstract class.		2
	ii.	How does inheritance promote	reusability?	3
	iii.	What is polymorphism? Discus	s run time polymorphism.	5
OR	iv.	Write a program to overload bin	nary + operator.	5
Q.6		Attempt any two:		
	i.	Write exception handling with	1	5
	ii.	*	the various type of file mode in C++.	5
	iii.		ents of one file to another file using	5
		command line arguments.		

Marking Scheme BC3SE01 OOP using C++

Q.1	i.	C++ language was invented by		1
		(a) Bjarne Stroustrup		
	ii.	Pick out the definition of objects		1
		(b) Instance of the class		_
	iii.	Which of the data type is used to represent the abser	nce of parameters?	1
	:	(c) Void The new and delete are: -		1
	iv.	(c) Both (a) and (b)		1
	v.	Which of the following is used to terminate the fun	etion declaration?	1
	٧.	(c);	etion declaration:	1
	vi.	The destructor is executed when: -		1
	V 1.	(a) Object goes out of scope		•
	vii.	When the inheritance is private, the private method	d in base class are	1
		in the derived class.		
		(a) Inaccessible		
	viii.	Dynamic binding is done using the keyword: -		1
		(b) Virtual		
	ix.	The eof() stands for:		1
		(a) End of file		
	х.	Pick out the correct answer:		1
		(a) Exception are not suitable for critical points in o	code	
Q.2	i.	Definition of message passing		2
	ii.	Any three applications of OOP's.1 mark for each	(1 mark *3)	3
	iii.	Definition of compiler and linker		5
		1 mark for each (1 mark *2)	2 marks	
		Working of compiler and linker.		
0 D		1.5 mark for each (1.5 mark *2)	3 marks	_
OR	1V.	At least five key concepts of OOP's.	(1 1 45)	5
		1 mark for each	(1 mark *5)	
Q.3	i.	Use of comma operator in place of semi-colon		4
		Explanation	3 marks	
		Example	1 mark	
	ii.	if else explanation	3 marks	6
		Program to execute	3 marks	

OR iii. Program to display		Program to display alphabets from A-Z using for l	y alphabets from A-Z using for loop.	
		Declaration	2 marks	
		Logic	3 marks	
		Output	1 mark	
Q.4	i.	Static data member	1.5 marks	3
		Static member function.	1.5 marks	
	ii.	Definition of constructor	1 mark	7
		Its types with example		
		2 marks for each type (2 marks * 3)	6 marks	
OR	iii.	Definition of function	1 mark	7
		With inline	2 marks	
		With friend function	2 marks	
		With example.	2 marks	
Q.5	i.	Definition of abstract class.		2
	ii.	Explanation of inheritance promote reusability		3
	iii.	Polymorphism	2 marks	5
		Run time polymorphism	2 marks	
		Example	1 mark	
OR	iv.	Program to overload binary + operator		5
		Step Wise marking		
Q.6		Attempt any two:		
	i.	Exception handling	3 marks	5
		Example.	2 marks	
	ii.	Definition of file in C++	1 mark	5
		Type of file mode in C++		
		0.5 mark for each (0.5 mark * 8)	4 marks	
	iii.	Program to copy contents of one file to another fi	ile using command	5
		line arguments		
		Step Wise marking		
