

BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – Bachelor of Technology in Computer Science & Engineering

Course Name – Object Oriented System

Course Code – BCSE402

(Semester - 4)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

		in their own words as fa	r as p	practicable.]		
		Group -	-A			
	(Multiple Choice Type Question) 10 x 1					
1.	Choose the correct alternative from the following					
(i)	Which of these can be overloaded?					
	a.	Methods	b.	Constructors		
	c.	All of the mentioned	d.	None of the mentioned		
(ii)	Which of the following events will cause a thread to die?					
	a.	The method sleep() is called	b.	Execution of the start() method ends		
	c.	Execution of the run() method ends	d.	Execution of the run() method is called		
(iii)	What i	is true about constructor?				
	a.	It can contain return type	b.	It can have any non-access modifiers		
	c.	It can take any number of parameters	d.	Constructor cannot throw an exception		
(iv)	Which of these operators is used to allocate memory for an object in java?					
	a.	malloc	b.	calloc		
	c.	new	d.	static		
(v)	Given a class named Book, which one of these is a valid constructor declaration for the class?					
	a.	Book(Book b) { }	b.	Book Book() { }		
	c.	<pre>private final Book() { }</pre>	d.	void Book() { }		
(vi)	Which of these is used to access a member of class before object of that class is created?					
	a.	public	b.	private		
	C	static	А	protected		

(vi	i) V) Which of the following keywords is used for throwing exception manually?						
		a.	finally	b.	try			
		c.	catch	d.	throw			
(vi	ii) V	Vhich	nich of these standard collection classes implements a dynamic array?					
		a.	AbstractList	b.	LinkedList			
		c.	ArrayList	d.	AbstractSet			
(ix	(x) V	Vhich	one of the following is not true?					
		a.	A class containing abstract methods is called an abstract class.	b.	An abstract class cannot abstract methods.	have non-		
		c.	Abstract methods should be implemented in the derived class.	d.	A class must be qualified class, if it contains one a method.			
(x) V	Vhich	of the following classes can catch	all ex	ceptions which cannot be	caught?		
		a.	RuntimeException	b.	ParentException			
		c.	Exception	d.	Error			
			Group - (Short Answer Ty		nestions)	3 x 5 = 15		
An	swer a	any <i>th</i>	aree from the following:					
2.	(a)	Wha	at is Exception Handling?			[2]		
	(b)	Hov	[3]					
3.	(a)	Wha	[2+2]					
	(b)	Is th	[1]					
4.	(a)	Wha	[2]					
	(b)	Brie	[3]					
5.	(a)	Wha	[2]					
	(b)	Wha	[1]					
	(c)		at is the difference between Checker eption?	ed Ex	ception and Unchecked	[2]		
6. ((a)	Wha	[2]					
	(b)	Wh:	at are the differences between absti	ract cl	ass and interface?	[3]		

Group-C

(Long Answer Type Questions) $3 \times 15 = 45$

Answer any three fr	om the	follo	wing
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7.	(a)	What are the difference between method overloading and method overriding?	[4]
	(b)	Explain dynamic method dispatch with suitable example.	[4]
	(c)	What is generics? Write a java program to show the use of Generics.	[2+5]
8.	(a)	What is multithreading? What is the difference between creation of user thread by extending thread class and implementing runnable interface?	[2+2]
	(b)	What is thread synchronization? Why is it needed?	[4]
	(c)	What is copy constructor? Explain with an example.	[2+5]
9.	(a)	How does String class differ from StringBuffer? Explain suitable example.	[3+2]
	(b)	Explain dynamic method dispatch with suitable example.	[4]
	(c)	Write a program to access static variable and static method to explain static keyword properly.	[6]
10.	(a)	Write a program to show the use of user defined exception.	[6]
	(b)	What is the difference between final, finally and finalize in java?	[3]
	(c)	What do you understand by garbage collection in java?	[2]
	(d)	What is the use of super keyword? Describe with suitable example.	[4]
11.	(a)	What do you mean by collection framework in java?	[2]
	(b)	How 'LinkedList' class is used to store data? Explain with proper java code.	[2+3]
	(c)	What is JDBC?	[2]
	(d)	Discuss different types of JDBC driver available in JAVA.	[6]