UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Course: Object Oriented Programming

CourseCode: CSEG2016

Programme: B Tech CSE+AIML

Semester: 4

Time: 2hr

Max. Marks: 100

Instructions: All Questions are compulsory.

1	Translating Java programs to bytecode helps	platform-dependence	Incorrect	platform-independence	Correct	platform-independence and platform-dependence	Incorrect	None	Incorrect
2	From where memory is allocated with new operator?	Heap	Correct	Stack	Incorrect	Heap and Stack	Incorrect	None	Incorrect

#	Question	Option 1	Option 2	Option 3	Option 4

3	What is the output of the following code?
	
	`class ques{`
	`public void disp(char c)   {`
	`  System.out.println(c); }`
	`public void disp(char c, int num)     {`
	`  System.out.println(c + " "+num);   }`
	`}`
	`public class EndTerm {`
	`public static void main(String[] args) {`
	`ques obj = new ques();`
	`obj.disp('a');`
	`obj.disp('a',10);`
	`}`
	`}`
		a — Incorrect	a 10 — Incorrect	Compiler Error — Incorrect	a
					a 10 — Correct

4	What is the output of this code?
	
	`public class EndTerm {`
	`int age;`
	`EndTerm(int age){`
	`age = age;`
	`}`
	`  public static void main(String[] args) {`
	`EndTerm obj = new EndTerm(8);`
	`System.out.println("obj.age = " + obj.age);`
	`}`
	`}`
		obj.age=0 — Correct	obj.age=1 — Incorrect	obj.age=null — Incorrect	Compilation error — Incorrect

5	Which is the correct of way of instantiating an array in Java?	int intArray[];
		//declaring array
		intArray = new int[20]; — Incorrect
			int[] intArray = new int[20]; — Incorrect	int[] intArray = {1,2,3}; — Incorrect	All Correct — Correct

#	Question	Option A		Option B		Option C		Option D		Option E	
6	What are different types of Integer literals in Java?	Decimal Literals	**Correct**	Octal and Hexadecimal Literals	Incorrect	Binary Literals	Incorrect	All of the above	Incorrect		
7	Which of the following has highest precedence?	.	**Correct**	++	Incorrect	<<	Incorrect	^	Incorrect		

8	What is the output of following code?
	
	public class EndTerm {
	
	public static void main(String[] args) {
	
	outer:
	
	for (int i = 0; i < 5; i++) {
	
	for (int j = 0; j < 5; j++) {
	
	if (j == 1)
	
	continue outer;
	
	System.out.println(" value of j = " + j);
	
	}
	
	}
	
	}
	
	}
		value of j = 0
		value of j = 0
		value of j = 0
		value of j = 0
		value of j = 0
				value of j = 1
				value of j = 2
				value of j = 3
				value of j = 4
				value of j = 5
					Incorrect	value of j = 0
						value of j = 1
						value of j = 2
						value of j = 3
						value of j = 4
							Correct	value of j = 0
								value of j = 2
								value of j = 3
								value of j = 4
									Incorrect		

#	Question									

9	What is the output of the following code?
	
	class Ant{
	
	int b=10;
	
	private Ant(){
	
	this.b=7; }
	
	int f(){
	
	return b; }
	
	}
	
	class B extends Ant{
	
	int b;
	
	}
	
	public class EndTerm{
	
	public static void main(String[] args){
	
	 Ant a = new B();
	
	System.out.println(a.f());
	
	}
	
	}
		Compiler Error	**Correct**	7	**Incorrect**	10	Incorrect	0	Incorrect

10	**What is the order of execution of constructors in Java Inheritance?**	Base to derived class	**Correct**	Derived to base class	Incorrect	Random order	Incorrect	None	Incorrect
11	What are different Type Conversions present in Java?	Narrowing Type Conversion	Incorrect	Widening Type Conversion	Incorrect	Both of the above	**Correct**	None of the above	Incorrect

#	Question	Option A		Option B		Option C		Option D		Option E	

12	What is the output of the following code?
	
	class access
	
	{
	
	public int x;
	
	private int y;
	
	void cal(int a, int b)
	
	{
	
	x = a + 1;
	
	y = b;
	
	}
	
	}
	
	public class access_specifier
	
	{
	
	public static void main(String args[])
	
	{
	
	access obj = new access();
	
	obj.cal(2, 3);
	
	System.out.println(obj.x + " " + obj.y);
	
	}
	
	}
		3 3	Incorrect	2 3	Incorrect	Runtime Error		Compilation error	Incorrect		Incorrect

13	The following code is given as:
	
	public class UPES{
	
	public abstract double numberOfStudent();
	
	}
	
	Which of the statement is true?
		The keywords public and abstract cannot be used together.	Incorrect	The method numberOfStudent() in class UPES must have a body.	Incorrect	You must add a return statement in method numberOfStudent().		Class UPES must be defined as abstract.	Incorrect		Correct

14	Is it mandatory to have a constructor for all classes included in multiple inheritance?	Yes	Incorrect	Yes, only if no abstract class is involved	Correct	No, only classes being used should have a constructor		No, they must not contain constructors	Incorrect		Incorrect

#	Question	Option A		Option B		Option C		Option D	
1 5	Which of the following is true?	A class can extend more than one class.	Incorrect	A class can extend only one class but many interfaces.	Incorrect	An interface can implement many interfaces.	Incorrect	A class can extend one class and implement many interfaces.	Correct

1 6	What is the output of the following code?
	
	class Test {
	
	int i;
	
	}
	
	class EndTerm {
	
	public static void main(String args[]) {
	
	Test t = new Test();
	
	System.out.println(t.i);
	
	}
	
	}
		0	Correct	Compiler Error	Incorrect	runtime error	Incorrect	garbage value	Incorrect

1 7	Interface can contain _____	public, static, final variables only	Incorrect	public, abstract methods	Incorrect	Abstract methods(unimplemented) and implemented methods both	Incorrect	public, static, final variables and abstract methods both	Correct

1 8	What problem will this code face?
	
	interface Geometry {
	
	    void f1();
	  void f2();
	  void f3();
	
	}
	class Circle implements Geometry {
	
	public void f1() { }
	
	}
		It will not face any problem	Incorrect	Compilation error	Correct	Runtime error	Incorrect	work fine	Incorrect

1 9	Which keyword is used by class to inherit interface?	extent	Inco	extend	Inco	extends	Inco	implements	Corr

#	Question	Option A		Option B		Option C		Option D	
			r e c t		rr e c t		r r e c t		e c t
2 0	Example/ Examples of marker interface is/are_____ _____.	Serializable	C o r r e c t	Clonnable	I n c o rr e c t	Remote interface	I n c o r r e c t	Serializable, Clonnable and Remote interface	I n c o r r e c t
2 1	If two packages contain classes with the same name, you can use the fully qualified class name for _____.	one or both of them.	C o r r e c t	one of them.	I n c o rr e c t	both of them	I n c o r r e c t	no one	I n c o r r e c t
2 2	The name collision problem is _____ solved by the package mechanism.	not completely	C o r r e c t	completely	I n c o rr e c t	completely or not completely	I n c o r r e c t	None	I n c o r r e c t
2 3	If you invoke a method that lists a checked exception in its throws clause, you can have following choices:	Catch the exception and map it into one of your exceptions by throwing an exception of a type declared in your own throws clause.	C o r r e c t	Declare the exception in your throws clause and let the exception pass through your method.	I n c o rr e c t	Catch the exception and handle it.	I n c o r r e c t	All of the above	I n c o r r e c t
2 4	What is the output of the following code? class Hello extends Exception { } class EndTerm { public static void main(String args[]) { try { throw new Hello(); } catch(Hello t) { System.out.println("Inside catch"); } finally { System.out.println("Inside finally "); } } }	Inside catch	I n c o r r e c t	Inside catch Inside finally	C o rr e c t	Inside finally	I n c o r r e c t	Error	I n c o r r e c t
2 5	The built-in base class in Java, which is used to handle all exceptions is	Raise	I n c o r	Exception	I n c o rr	Error	I n c o r	Throwable	C o r r e

#	Question	Option A		Option B		Option C		Option D	

26	What is the output of the following code?
	
	class EndTerm {
	public static void main(String args[]) {
	String s1="java";
	String s2="java";
	System.out.println(s1.equals(s2));
	System.out.println(s1==s2);
	}
	}
		true
		false
			Incorrect	false
				true
					Incorrect	true
						true
							Correct	false
								false
									Incorrect

27	Which of the following methods Byte wrapper return the value as a double?	doubleValue()	Correct	converDouble()	Incorrect	getDouble()	Incorrect	getDoubleValue()	Incorrect

28	What is the output of the following code?
	
	import java.lang.reflect.Array;
	class EndTerm {
	public static void main(String args[]) {
	byte a[] = { 1, 2, 3, 4, 5 };
	for (int i = 0; i < 5; i++) {
	byte x = Array.getByte(a, i);
	System.out.print(x + " ");
	}
	}
	}
		1 2 3 4 5	Correct	0 1 2 3 4	Incorrect	Compiler error	Incorrect	Runtime error	Incorrect

29	The StringBuffer class is essentially identical to the StringBuilder class except_____.	Thread-safety	Corr	non-synchronized methods	Inco	more efficient	Inco	none	Inco

			e c t		rr e c t		r r e c t		r r e c t
3 0	Which of these access specifiers can be used for a class so that its members can be accessed by a different class in the different package?	public	C o r r e c t	protected	I n c o rr e c t	private	I n c o r r e c t	No modifier	I n c o r r e c t
3 1	……………….. package in java contents language utility classes such as vectors, hash tables, random numbers date etc.	java.util	C o r r e c t	java.awt	I n c o rr e c t	java.net	I n c o r r e c t	java.lang	I n c o r r e c t
3 2	_____ nested classes are called inner classes.	Non-static	C o r r e c t	static	I n c o rr e c t	public	I n c o r r e c t	protected	I n c o r r e c t
3 3	Static nested classes can declare	static initialization blocks	C o r r e c t	member interfaces	I n c o rr e c t	static members	I n c o r r e c t	All of the above	I n c o r r e c t
3 4	Which access specifier can be used for interface?	public	C o r r e c t	protected	I n c o rr e c t	private	I n c o r r e c t	All of these	I n c o r r e c t
3 5	Which method is used to start the execution of thread?	init()	I n c o r r e c t	start()	C o rr e c t	run()	I n c o r r e c t	none	I n c o r r e c t

#	Question	Option 1		Option 2		Option 3		Option 4		Option 5	

36	What is the output of the following code?
	
	class EndTerm {
	
	public static void main(String args[]) {
	
	Thread t = Thread.currentThread();
	
	System.out.println(t);
	}
	
	}
		Thread[main,5]	Incorrect	Thread[5,main]	Incorrect	Thread[main,main]	Incorrect	Thread[main,5,main]			Correct

37	What is thread deadlock?	when two or more threads are blocked forever	Correct	when two or more threads are blocked for sometime	Incorrect	when two or more threads never block	Incorrect	none			Incorrect

38	What is the output of the following code?
	
	class EndTerm {
	   public static void main(String[] args) throws InterruptedException {
	
	Thread t = Thread.currentThread();
	
	System.out.println(t.isAlive()); }
	
	}
		FALSE	Incorrect	TRUE	Correct	0	Incorrect	1			Incorrect

39	Which interface does java.util.Hashtable implement?	java.util.Map	Correct	java.util.List	Incorrect	java.util.HashTable	Incorrect	java.util.Collection			Incorrect
40	List, Set and Queue _____ Collection.	extends	Correct	implements	Incorrect	both of the above	Incorrect	none of the above			Incorrect
41	What is the default capacity of ArrayList?	5	Incorre	10		7	Incorre	3			Incorre

#	Question									
			c t						c t		c t

#	Question	Option A		Option B		Option C		Option D		Option E	

42	What is the output of the following code?
	
	import java.util.*;
	class EndTerm {
	  public static void main(String[] args){
	
	Set set=new TreeSet();
	
	set.add(1);
	set.add("2");
	
	 set.add(3);
	
	Iterator itr=set.iterator();
	
	while(itr.hasNext()) {
	
	System.out.print(itr.next()+""); }
	
	}
	
	}
		1 2 3	Incorrect	1 followed by exception	Incorrect	Compile time exception	Incorrect	Runtime exception	Correct		

43	What is the output of the following code?
	
	import java.util.Arrays;
	
	public class array2 {
	
	 public static void main(String args[]){
	
	int a[]={5,12,8,9};
	
	Arrays.sort(a,1,3);
	
	System.out.println("After Sorting elements of specified range");
	
	for(int i
		5 8 9 12	Incorrect	5 8 12 9	Correct	5 12 8 9	Incorrect	None	Incorrect		

44	What is the output of the following code?
	
	import java.util.*;
	
	public class HashSetDemo {
	
	public static void main(String arg[]){
	
	HashSet h = new HashSet();
	
	h.add("B");
	
	h.add("C");
	
	h.add("D");
	
	h.add("Z");
	
	h.add(null);
	
	h.add(new Integer(10));
	
	System.out.println(h);
	
	}}
		[B, C, D, Z, 10]	Incorrect	[B, C, D, Z, null, 10]	Incorrect	[null, B, C, D, Z, 10]	Correct	[B, C, D, Z, 10, null]	Incorrect

4 5	What is the output of the following code?
	
	import java.util.SortedSet;
	
	import java.util.TreeSet;
	
	public class array2 {
	
	public static void main(String args[]){
	
	SortedSet set = new TreeSet();
	
	set.add("Bentley");
	
	set.add("Mercedes");
	
	set.add("Baleno");
	
	System.out.println("First element: "+set.first());
	
	System.out.println("Last element: "+set.last());
	
	}
	
	}
		First element: Baleno
		
		Last element: Mercedes
			C o r r e c t	First element: Bentley
				
				Last element: Mercedes
					I n c o rr e c t	First element: Bentley
						
						Last element: Baleno
							I n c o r r e c t	None	I n c o r r e c t

4 6	Which JDBC type represents a "single precision" floating point number that supports seven digits of mantissa?	Real	C o r r e c t	Double	I n c o rr e c t	Float	I n c o r r e c t	Integer	I n c o r r e c t
4 7	The JDBC-ODBC bridge is	Multithreaded	C o r r e c t	Singlethreaded	I n c o rr e c t	Both of the above	I n c o r r e c t	none of the above	I n c o r r e c t
4 8	What are the functions of Servlet container?	Lifecycle management	I n c o rr e	Communicatio n support	I n c o rr e c t	Multithreading support	I n c o r r e	All of the above	C o r r e c t

#	Question	A		B		C		D		E	
			ct						ct		
49	Through which tag you can define servlet context in web.xml?	config-param	Incorrect	context-param	Correct	init-param		All of these	Incorrect		Incorrect
50	What type of servlets use these methods doGet(), doPost(),doHead, doDelete(), doTrace()?	Generic Servlets	Incorrect	HttpServlets	Correct	All of the above		None of the above	Incorrect		Incorrect
51	Which class provide implementation for service() method ?	GenericServlet	Incorrect	HttpServlet	Correct	Servlet		None of these	Incorrect		Incorrect
52	Which of these method is called only once in Servlet life cycle ?	service()	Incorrect	init()	Correct	destroy()		None of these	Incorrect		Incorrect
53	"request" is instance of which one of the following classes?	Request	Incorrect	HttpRequest	Incorrect	HttpServletRequest	Correct	ServletRequest			Incorrect
54	Which of the following is not a directive?	include	Incorrect	page	Incorrect	export	Correct	useBean			Incorrect
55	Why this code is not correct ? <%if(strPassword.equals("boss")){<jsp:forward page="Welcome.jsp" flush="true"/>} else{}%>	Unmatched bracket in for statement	Incorrect	Flush attribute must be false	Incorrect	Keyword 'file' should be used instead of 'page' in the <jsp:forward/> action	Incorrect	Actions cannot be used within scriptlet blocks	Correct		
56	When a JSP page is compiled, what is it turned into ?	Applet	Inc	Servlet	Corr	Application		Mailet	Inc		

#	Question	Option A		Option B		Option C		Option D	
			orrect		ect		orrect		orrect
57	How can a servlet call a JSP error page?	This capability is not supported.	Incorrect	When the servlet throws the exception, it will automatically be caught by the calling JSP page.	Incorrect	The servlet needs to forward the request to the specific error page URL. The exception is passed along as an attribute named "javax.servlet.jsp.jspException".	Correct	The servlet needs to redirect the response to the specific error page, saving the exception off in a cookie.	Incorrect
58	What type of scriptlet code is better-suited to being factored forward into a servlet ?	Code that deals with logic that is common across requests.	Correct	Code that deals with logic that is vendor specific.	Incorrect	Code that deals with logic that relates to database access.	Incorrect	Code that deals with logic that relates to client scope.	Incorrect
59	Which syntax is used to comment in JSP?	<!-- Comment -->	Incorrect	<@-- Comment -->	Incorrect	<%-- Comment -->	Correct	<&-- Comment -->	Incorrect
60	Which is an example of the syntax used to import a class to JSP?	<% page import="java.util.List" %>	Incorrect	<%@ page import="java.util.List" @%>	Incorrect	<% import="java.util.List" %>	Incorrect	<%@ page import="java.util.List" %>	Correct