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## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY



## (Accredited by NAAC with A+ Grade)

# Department of Computer Science and Engineering (Accredited by NBA) Continuous Internal Evaluation Test 1 - AY 2022-23

Course Title: Advanced Java	& J2EE	Course Code: 18CS644
Date: 03/06/2023	Time: 3.00 PM- 04.30 PM	Semester/Section: VI A,B & C
Faculty: Mr.Senthilkumar R / I	Max. Marks: 30	

## Note: Answer ONE FULL question from each Module.

0.	No.	Questions		COs	BTL
۷.	1101	Module 1			
1	a)	Discover the enumeration usage with values() and valueOf() methods with an example program.	5	CO1	L3
	b)	Relate the following methods of java.lang.Enum with an example program  1. ordinal			
		2. compareTo() 3. equals()	10	CO1	L3
Ţ		· OR			
2	a)	How to use wrapper class as numeric type wrapper with an example program in Java and explain various types wrapper used in Java.	10	CO1	L3
	b)	Apply autoboxing or unboxing concept using Java program with proper example.	5	CO1	L3
		Module 2			
3	a)	Use Annotation concepts with built in annotations with java program as an example @Override, @inherited, @Retention	10	CO2	L3
	b)	Relate different types of retention policies for annotations in Java with syntax of each annotations	5	CO2	L3
_		OR			
4	a)	Discover the various methods for various collection frameworks by collection interface with syntax of each interfaces.	10	CO2	L3
	b)	Use the following collection interface: i) Queue ii) SortedSet with syntax for each.	5	CO2	L3

### Levels of Bloom's Taxonomy

No.	L1	L2	L3	L4	L5	L6
Level	Remember	Understand	Apply	Analyze	Evaluate	Create

## Course Outcomes

CO1	Identif	fy the nee	ed for advanced Java concepts like Enumerations and Collections	1	18			
CO2	Constr	ruct clien	t-server applications using Java socket API	RA.	Ù/			
соз	Make	use of JI	OBC to access database through Java Programs	581	uo£			
CO4	Adapt	dapt servlets to build server side programs						
CO5	Demo	nstrate th	ne use of JavaBeans to develop component-based Java software	rá s	do Ž			
	100	- edunité	Questions  Aladule 1					
			program  1. ordinal  2. commistToO  3. commistToO					
			SIO					
			Module 2					
			vmenozeT s'modiff					



## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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#### QUESTION PAPER REVIEW REPORT

Continuous Internal Evaluation (CIE) Test: 1 AY 2022-23

Department: Computer Science and Engineering Accredited by NBA)

Semester/Section: VI / A, B & C

Max Marks: 30

Course Title: Advance Java and J2EE

Course Code: 18CS644

Date: 03/03/2023

Faculty: Dr.Madhusudhan S / Senthilkumar R

Qn. No.	Course Outcome (CO)	Bloom's Taxonomy Level	Marks
la		3	5
1b		3	10
2a		3 3	10
2b		3	5
3a	2.	3	10
3b	2	3	5
4a	2	3	10
4b	2	3	5
	Total Marks		60

BT Level: L1-Remember, L2-Understand, L3-Apply, L4-Analyze, L5-Evaluate, L6-Create

#### Consolidated Marks for Different BT Levels:

BT Level	Marks for Each Level	% of Marks	Remarks
3	60	60	

#### Scrutinizer/Reviewer Remark:

Approved	V	Approved with Correction	~	Rejected
Reason for Rejection				

Dr. S.M. Then Bedheson Name & Signature of the Scrutinizer

Date: 24/5/23

Dojs Mondom Banksha.
Name & Signature of the IQAC Coordinator

Date: 24/5/23

Signature of Head of the Department

Dept. Of Computer Science & Engineering Alva's Institute of Eng.; & Technology Mijar, MOODEIDRI - 574 228

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#### ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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## Department of Computer Science and Engineering (Accredited by NBA) Continuous Internal Evaluation Test 1 - AY 2022-23

Course Title: Advanced Java & J2EE		Course Code: 18CS644
Date: 03/06/2023	Time: 3.00 PM- 04.30 PM	Semester/Section: VI A,B & C
Faculty: Mr.Senthilkumar R / Dr.Madhu	Max. Marks: 30	

Note: Answer ONE FULL question from each Module.

Q. No	).	Questions	Marks	COs	BTL
	1	Module 1	.3		
1 a	1)	Discover the enumeration usage with values() and valueOf() methods with an example program.  • The values() method returns an array of enumeration constants. The syntax is,  public static enum_type [] values()  • The valuesOf() method returns the enumeration constants whose value corresponds to the string passed to it as argument. The syntax is.  public static enum_type valuesOf(String str)	out En loes & with Sy,	mera Value tax CO1	tion-
1	)	Relate the following methods of java.lang.Enum with an example		001	
		1. Ordinal enum Level { LOW, MEDIUM, HIGH Program - b	a.Fiffi		
		System.out.println(myVar.ordinal()); } }	to use and to be constant	How	(a)
		<ul> <li>2. compareTo()</li> <li>The comareTo() is used to compare two ordinal values of the same enumeration.</li> <li>Syntax:         final int compareTo(enum-type e)</li> <li>For example:         f1 = Fruit.Mangoes;         f2 = Fruit.Guavas;</li> </ul>	Fruit Fruit fryocs,	Por E	
		f1.compareTo(f2)	10	CO1	L3

		3. equals()		
		enum Fruit	T	
		ALVA SINSTITUTE OF ENGINEERING & TECHNOLOGY		
		Mangoes, Or A drive DAAM and Dahlastica All		
يقيا		Guavas, Sometimes of the Company of		
		banana, Lient nahantaya lamana kamatano	E	YVL
		Oranges,		-
		Apples;	A sporter is	3 KUU O
	12-32	public class EnumDemoInherits	3/06/2023	0 salsC
		{	vi Miriskar	glusu!
		public static void main(String args[])	inswer O	cuan)
		{		
		Fruit f1,f2,f3;		0. No
		System.out.println("All the constants and their ordinal values		
		are as follows");	Distor	B. 3
	Contract Art	ds with an example program.	ontan	
	and a	Fruit allfruits[] = Fruit.values();		
	- 10	for(Fruit f : allfruits)		1
		System.out.println(f + ":" +f.ordinal());		
		f1 = Fruit.Mangoes;		
		f2 = Fruit.Guavas; .	+	
		f3 = Fruit.Mangoes;		
		if(f1.compareTo(f2)<0)	- Industrial	
	3	System.out.println(f1 + "appear before" + f2); if(f2.compareTo(f1)>0)	CONTRA	
		System.out.println(f2 + "appear after" + f1);	Relate	
		if(f1.compareTo(f3) == 0)	majoring P	
		System.out.println(f1 + "equal to" + f3);		
		if(f1.equals(f3))	1 1	
		System.out.println(f1 + "equal to" + f3);		
		}		
		Holl.		
		OR Designation		
2	a)	How to use wrapper class as numeric type wrapper with an example		7
		program in Java and explain various types wrapper used in Java.		
		A Color of the Col		
		• The ordinal() method returns the ordinal value of invoking constant. The ordinal value begins with zero.		
	-			
-		• Syntax		
		final int ordinal()	001	
		For Example 2	CO1	
		final int ordinal()  For Example  Enum Fruit  Mangoes,  final int ordinal()  About Wrapper class - 2  Syntax  - 2  Explain  10  Explain		
		Enum Fruit _ 4		
		boodeau		
		Eurlain - 2		
		Mangoes,		
	2.7	Guaves,		L3

	banana,			T
	Oranges,			
	Apples;	e duna		
	}			
	Here, Mangoes has ordinal value, Guavas has ordinal value 1 and so on.			
b)	Apply autoboxing or unboxing concept using Java program with proper example.  • Autoboxing: Autoboxing is the process by which a primitive	Autobor	cing -	7
	type(int, double, float) is automatically encapsulated(boxed) into its equivalent type wrapper(Integer, Double, Float). There is no need to explicitly construct an object. This is an automatic process.	Autoboxi unboxi Explain	COI	
	• Definition of Auto-unboxing: Auto-unboxing is process by which the value of boxed object is automatically extracted(unboxed) into respective data type. There is no need to invoke the methods such as intValue() or doubleValue(). This is an automatic process.	Mg-y-		L
	Module 2	Hamoron	in Fi	1
a)	Use Annotation concepts with built in annotations with java program as an example @Override, @inherited, @Retention	notizal	102	
6	• There are Eight built in annotations. These are defined as follows:  @Retention: It is designed to annotate the other annotation. It is useful for specifying the retention policy.	do)		
200	@override: This annotation is used to inform the compiler that the overriding method is being used from super class. This annotation applies to method only. If we use @override annotation and the method signature is not found at super class then it will result in compilation error.	10	CO2	
	@override: This annotation is used to inform the compiler that the overriding method is being used from super class. This annotation applies to method only. If we use @override annotation and the method signature is not found at super class then it will result in compilation error.	Fach Melho Each Bynto	ds)	-6 1
	@Inherited: The @Inherited annotation signals that a custom annotation used in a class should be inherited by all of its sub classes. We can use the @Inherited annotation to make our annotation propagate from an annotated class to its subclasses.			L3
b)	Relate different types of retention policies for annotations in Java with syntax of each annotations  Each Policies - 3	5	CO2	L3
	-9			

	Retention Policy	Availability
	RetentionPolicy.SC	OURCE The annotation with retention policy of SOURCE is retained only in the source file and discarded during compilation
-S -	RetentionPolicy.CL	ASS An annotation with retention policy of CLASS is stored in the .class file during compilation. However it is not available through the JVM during runtime
	RetentionPolicy.RU E	available through the JVM during
	Property Company	runtime OR
a)	collection interface wi	methods for various collection frameworks by ith syntax of each interfaces.
a)	<ul> <li>Collection interface with the collection interface</li> <li>The collection is following declar interface</li> <li>Where, E specification extensions</li> <li>Collection extensions</li> <li>The collection in we can modify the collection in the collection in</li></ul>	the syntax of each interfaces.  The syntax of each interface interface that has reach method—by the syntax of each method with the syn
a)	<ul> <li>Collection interface with the collection interface</li> <li>The collection is following declar interface</li> <li>Where, E specification exten</li> <li>The collection in the collectio</li></ul>	the syntax of each interfaces.  The syntax of each interface interface that has so that has syntax of each method of the syntax of each method of the syntax of each interface that has so that has syntax of each interface that has so that has syntax of each interface that has so that has syntax of each method of the syntax of each interface that has synta
a)	<ul> <li>Collection interface with the collection interface</li> <li>The collection is following declar interface</li> <li>Where, E specification extensions</li> <li>Collection extensions</li> <li>The collection in we can modify the collection in the collection in</li></ul>	the syntax of each interfaces.  The syntax of each interface interface that has reach method—by the syntax of each method with the syn
a)	Collection interface with a collection interface     The collection is following declar interface     Where, E specification extenion. The collection extenion in we can modify the collection in we can modify the collection.	the syntax of each interfaces.  The syntax of each interface of different of the syntax of each method of each meth

		is used.			
	Boolean contains(Object obj)	For checking whether the collection contains specific object or not this method returns true.			
D.J.	Boolean contains All (Collect ion collection)	If all the elements of the collection are present in the collection then this method returns true.			
	Boolean isEmpty()	It's a Boolean method which determines whether collection is empty or not.			
	Iterator iterator()	Returns iteratore to the collection	A STATE		
	boolean remove(Object obj)	An object can be removed by this method			
	Boolean removeAll(Collecti on collection)	It helps in removing a group of objects	107.13		
	int size()	It returns the total number of elements in the collection			
	Object[] to Array()	Returns an array of elements to the invoking collection. Basically these array elements are the copies of the collection that calls them to Array method.			
	Boolean equals(Object obj)	For comparing two collections this method is used.			
b)	Definition: The elements can be inserte elements, the high prior priority elements get re-	queue is a kind of data structure in which the d in any fashion but while removing the both end ity elements get deleted first and then the lower moved. (2) we define a grove to be a git additions to the list are made a inserting the elements in priority queue they get y manner. In such a situation deleting an element at forward job.	s perfo list in it one e deletion are mad	which CO2 and are stoom	in FIF.
	• This interface is i	nherited from the set interface and allows the ranged in ascending order.		Page	L3

Queve (2) Sorted set (2) Byntax (1)

Page | 5

•	The methods defined in this interface normally throw the
	exception such as NoSuchElementException.
	NullPointerException and ClassCastException.

#### Levels of Bloom's Taxonomy

No.	L1	L2	L3	L4	15	T
Level	Remember	TI.d	entined non	billion The Late	211 2 13	L6
Bever	Kemember	Understand	Apply	Analyze	Evaluate	Create

#### Course Outcomes

CO1	Identify the need for advanced Java concepts like Enumerations and Collections	Ciavoinas -	$\overline{}$
CO2	Construct client-server applications using Java socket API	Boole ma	5-1
СОЗ	Make use of JDBC to access database through Java Programs	trioner et e	
CO4	Adapt servlets to build server side programs	Tuck to	+-
CO5	Demonstrate the use of JavaBeans to develop component-based Java software		

1. Profin [SENTHICKUMPR.] 2. Alade [Dr. Madhusudhan.]

an additions to the list are note at one end

Faculty Incharge

FORC Co-ordinator

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