

School: School of Engineering and Technology

Program/s: BCA/B.Sc(DS)
Year: 1st Semester: 2nd

Examination: End Semester Examination

Examination year: May - 2023

Course Code: CMP211

Course Name: Object Oriented Programming

Date: 19/05/2023

Time: 02:00 am to 04:00 am

Total Marks: 40

Total Pages:

Instructions:

a) Attempt All the Questions

b) No Calculator is allowed

Q. No.	Details	Marks	CO	BTLO
	Attempt All the Questions(1 marks each)	40		
Q.1	In JDBC, to execute action sql query function/method is used. (Action query means Insert, Update, Delete) * 🔲 (1 Point)	1	CO4	BT1, BT2
	executeDelete()			
	executeQueryt)			
	executeInsert()			
	<pre> executeUpdate() </pre>			
Q.2	Analyze the following Java program code.	1	CO2	BT2
	class MyClass {			BT3
	int i;			BT5
	public void MyClass(int j) {	7.4		
	int i = j;			
400	}			
	}			
	/////////			
	public class Demo {			
	<pre>public static void main(String[] args) {</pre>			
	MyClass temp = new MyClass(2);			
	}			
	}			

	It compiles fine, but it does not run because class Demo is not public.		X	
	It will run without any error.		-	
	It has a compiletime error because MyClass does not have a proper constructor.			
	It has a compiletime error because MyClass does not have a default constructor.			
Q.3	In threading in Java, the maximum thread priority value is and minimum thread priority value is * 🖫 (1 Point)	1	CO3	BT1, BT2,
	O 1, 5			
	O 1. 10			
	○ 10.1 ○ 5.1			
	O 5. 1			
Q.4	Select the correct option wherein integer datatype names are arranged in descending order of their size.	1	CO1	- Di.
	int long, short, byte			ВТ2
	O long. Int. byte. short			
	O long, int. short, byte			
	byte short int, long	,		
Q.5	The data-type literal value 3.14 in Java is * 🗔 (1 Point)	1	CO1	BT1,
	① float			BT2
	○ long			•
	double			
	O int			

	In Java multithreading is achieved by following ways * (1 Point) (1) By inheriting Thread class and (2) By implementing Runnable class (1) By inheriting Thread class and (2) By implementing Runnable interface (1) By inheriting Threading class and (2) By implementing Run interface	1	CO3	BT1, BT2
	(1) By inheriting ChildThread class and (2) By implementing Runnable interface			
Q.7	Below are the statements related to static keyword (1) variables declared as static cannot be used in constructor (2) static methods cannot use non-static member variables (3) to initialize static variables there is a provision of static block in Java (4) static methods can be invoked through object-name and class-name statement 1.2 and 3 are true statement 1 and 2 are true statement 2.3 and 4 are true	1	CO2	BT1, BT2
Q.8	<pre>What will be the output of the following Java program? public class Test1 { public static void main(String[] args) { String myCollege = new String("Navrachana-University"); System.out.print(myCollege.charAt(2)); System.out.print(myCollege.charAt(4)); System.out.print(myCollege.charAt(6)); } }</pre>	1	CO2	BT2, BT3, BT4, BT5

	○ rca			1	P
	aha				
	none of these				
	○ vah				
Q .9	To access Relational Databases from Java	+	1	604	
	To access Relational Databases from Java, package needs to be imported (i) Java,mysql.*	1.		CO4	BT1 BT2
	○ j <u>ava.data</u> .mysql,*				
	java.sql.*				
Q.10					
Q.10	Below are the statements related to Constructor				6 -
	2) constructor is a special function which		1 (02	BT2,
	A class can have multiple constructors Constructors				ВТЗ,
	3) Constructor do not return any tree				BT4
	4) A class can have many default constructor.				
	statement 1 and 4 are valid				
	statements 2 and 3 are valid				
	statement 1 and 2 are valid				
	statements 1,2 and 3 are valid				
	only statement 1 is valid				
Q.11	Fill in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in a given code spismal and in the blank in the blank in a given code spismal and in the blank in the b				
	Fill in the blank in a given code snippet so as to avoid compile time error. abstract class Test	1	CO2	BT	,
	989,464,640,73 (63)			В	5
	int_getMarks();			BT4	
) * [(1 Point)				
	7 Lag (17 only				1
	Super				
	C) abstract				
	○ final				
	(iii) static				

	How many maximum numbers of objects can be created from a single Class in Java programming? • Q (1 Point)	1	CO2	BT
	No Limit			В
	○ 512			
	€) 3z			
	○ 64			
	○ 256			
3	Which of the following statements are true?	1	CO2	ВТ
	 A default constructor is provided automatically if no constructors are explicitly declared in the class. 		002	ВТ
	2. At least one constructor must always be defined available.			ВТ
.:	It is mandatory to define at least one constructor with one argument. The default constructor is a no-argument constructor.			
	Statement 1 and 2			
	Statement 2 and 3			
	Statement 1 and 4	¥-		
	◯ Statement 3 and 4			
14	Consider following statements			
	abstract class cannot be instantiated	1	CO2	BT BT
	abstract class has atleast one abstract method			ВТ
	an abstract method when overridden must be defined as public			
	4) an abstract method can be invoked by class name in which it is declared			
1,50	statements 1.2 and 3 are valid			
	statement 1 and 4 are valid			
	statement 1 and 2 are valid	65		
		1	I	1

		1	C04	
Q.15	On clicking a Swing GUI Button controlfunction is invoked/fired.	1	CU4	1
	(1 Point)			
	public void actionPerformed(ActionEvent ae)			1
	public void ButtonPressed(ActionEvent ae)			
	public void ButtonClicked(ActionEvent ae)			
	public void getActionPerformed(ActionEvent ae)			
Q.16	Which of the following is not Object oriented programmings concept in Java?	1	CO2	BT1, BT2
	○ Encapsulation			
	Polymorphism			-
	☐ Inheritance			1
	Compilation			. *
Q.17	In JDBC, ResultSet.TYPE_FORWARD_ONLY result-set data is slower than ResultSet.TYPE_SCROLL_SENSITIVE result-set. * [2], (1 Point)	1	CO4	BT1, BT2
	○ False			
	○ True			
Q.18	The GUI visible rectangular area where several controls can be added like Buttons, Labels, RadioButtons, TextFields is known as in Java. * Д (1 Point)	1	CO4	BT1, BT2
	Radiobattons, text fields is known as made.			
	○ Frame			0
	○ Window			
	○, Tile			
	() Square			
1	1	1		

(4)

CO.4			604	BT1,
79	The read method of FileInputStream returns after scanning/reading single character from a file.	1	CO4	BT2
	int			
	String			
	Char			
	○ float			
Q.20	Consider following statements and choose the correct option (1) Java supports multiple inheritance under the hood through the use of interface (2) Interface provides place-holder for methods to be inherited to class (3) Methods declared in interface and abstract method in abstract class must be overridden in its child class	1	CO2	BT2, BT3, BT4
	statement 1.2 and 3 are true			
	only statement 2 is true			
	statement 1 and 2 are true			
	statement 1 and 3 are true			
Q.21	Variables declared in interface are *	1	CO3	BT1 BT2
	protected. static and final only			
	public, static and final only			
	public only			
	public and static only			

				/	
Q.22	Select the most fit overriding class Test { int show(int x) { ret }	code for below code snippet. urn 100; }	1	CO2	B
	<pre>class Exam extends Test { int show(int y) { return 200 ; } }</pre>	<pre>class Exam extends Test { int show() { return 200 ; } }</pre>		·	
	Option 3	(_) Option 2			
	<pre>class Exam extends Test { void show(){ System.out.println("OK"); } }</pre>	<pre>class Exam extends Test { void show(int x, int y) { System.out.println("OK"); } }</pre>			6
	Option 1	_) Oction 4			
Q.23	In multithreaded environment, to synchronize (1 Point) synchronizing synchronizes	e thread, keyword must be used. °	1	C04	BT1, BT2
	() syndurónize				0

	P 15 4	1	CO1	
Q.27	Which of the following Java "for" loop declaration is not valid? *		501	1
	for (int number = 10; number <= 80; number += 10)			Б
	for (int number = 20; number >= 1;number)			
	for (int number = 99; number >= 0; number / 9)			
	for (int number = 2; number <= 20; number = 2 * number)			
Q.28	Following statements are related to Swing components of Java (1) Swing component uses Event Delegation Model to handle Databases. (2) Swing components are purely coded in Java. (3) Swing components provide uniform GUI interface across different Operating System environments.	1	CO4	BT2, BT3, BT4
	(4) Swing components are best alternative to AWT components. (1 Point)			
	Statements (1), (3) and (4) are true			
	All are true	7		
	Statements (2). (3) and (4) are true			
	Statements (1) and (4) are true			
Q.29	In JDBC, object of PreparedStatement is faster than Statement Object as Statement object is compiled everytime though the same query with different parameter is used.	1	CO4	BT1, BT2
	False			
	○ True			
			-	
Q.30		1	CO1	ј2, вт3, вт4, вт5

Predict output of following program public class demo { public static void main(String[] args) { int num=100, sum=0; switch(num) case 30: sum = sum + num; case 10: sum = sum + num; case 20: sum = sum + num; default: sum = sum + num; System.out.println(sum+num*(int)3.4); } 400 300 200 Q.31 The default value for data field of a Boolean type, Numeric type and Object type is CO1 BT1, BT2 true, 1, null null false 0 laise, 1, null false 0 null true, null, 1

int [] myList = {"1". "2". "3"}: int myList [] = {4, 3, 7}; int myList [] [] = {4,9,7,0}; int [] myList = (5, 8, 2): Reyword is used to allocate memory for arrays and objects in					
Object Oriented Programming paradigm focuses on revisability: Function and Data are not tied together Emphasis on Data, rather than Procedure Modular structure of program Mich will legally declare, construct, and initialize an array in java? * 1 CO1 int [] myList = ("1", "2", "3"); int myList [] = {4, 3, 7}; int myList [] [] = {4, 9, 7, 0}; int [] myList = (5, 8, 2); keyword is used to allocate memory for arrays and objects in Java. static final new this O.35 Under Java, creating an object from a class is also known as = 1 Interfacing Instantiating Instantiating	Q.32		1	C02	
Princetion and Data are not fied together Emphasis on Data: rather than Procedure Modular structure of program Which will legally declare, construct, and initialize an array in java? 1 CO1 int [] myList = ("1", "2", "3"); int myList [] = (4, 3, 7); int myList [] [] = (4, 9, 7, 0); int [] myList = (5, 8, 2); Q.34 keyword is used to allocate memory for arrays and objects in Java. static final new this Under Java, creating an object from a class is also known as Interfacing Instantiating					
Q.33 Which will legally declare, construct, and initialize an array in java? * 1 CO1 int [] myList = ("1", "2", "3"): int myList [] = (4, 3, 7): int myList [] [] = (4, 9, 7, 0): int [] myList = (5, 8, 2): Q.34 keyword is used to allocate memory for arrays and objects in Java. static final new this Under Java, creating an object from a class is also known as * 1 CO2 P. Br. Interfacing Instantiating		Object Oriented Programming paradigm focuses on reusability.			
Q.33 Which will legally declare, construct, and initialize an array in java? * 1 CO1 int [] myList = ("1", "2", "3"): int myList [] = (4, 3, 7): int myList [] = (4, 9, 7, 0): int [] myList = (5, 8, 2): Q.34 keyword is used to allocate memory for arrays and objects in Java. static final new this Under Java, creating an object from a class is also known as* Interfacing Instantiating		Function and Data are not tied together			1
Q.33 Which will legally declare, construct, and initialize an array in java? * 1 CO1 int [] myList = ("1", "2", "3"): int myList [] = (4, 3, 7): int myList = (5, 8, 2): Q.34 keyword is used to allocate memory for arrays and objects in Java. static final new this Under Java, creating an object from a class is also known as Interfacing Instantiating		Emphasis on Data. rather than Procedure			
Which will legally declare, construct, and initialize an array in java? * 1		Modular structure of program			
Q.34 Q.34 keyword is used to allocate memory for arrays and objects in 1 CO2 BT	Q.33	Which will legally declare, construct, and initialize an array in java? *	1	CO1	BT2, BT3,
Q.34 keyword is used to allocate memory for arrays and objects in Java. static final new this Under Java, creating an object from a class is also known as		int [] myList = {"1", "2", "3"};			BT4, BT5
Q.34 keyword is used to allocate memory for arrays and objects in 1 CO2 BT BT CO2 BT BT CO3 Static final hew 1 LO3 BT CO3 BT BT BT CO3 BT BT BT CO3 BT		int myList [] = {4, 3, 7};			
Q.34 keyword is used to allocate memory for arrays and objects in Static Static		int myList [] [] = $\{4,9,7,0\}$;			n Mari
Q.35 Under Java, creating an object from a class is also known as		int [] myList = (5, 8, 2):			-
Static final new this Under Java, creating an object from a class is also known as	Q.34	- leavened to the state of the			
Q.35 Under Java, creating an object from a class is also known as		Java. Reyword is used to allocate memory for arrays and objects in	1	CO2	BT1, BT2
Q.35 Under Java, creating an object from a class is also known as		static			
Q.35 Under Java, creating an object from a class is also known as Interfacing Instantiating		(final			
Under Java, creating an object from a class is also known as Interfacing Instantiating		new			
Under Java, creating an object from a class is also known as Interfacing Instantiating) this			
Interfacing Instantiating	Q.35	Under Java, creating an object from a class is also known as	1	CO2	F%.
					BiZ
○ Initializing		Instantiating			
		() Initializing			
None of these		None of these			

CO'E	Select the correct syntax for declaring a class in Java programming *	1	CO	BT1, BT2
	CLASSNAME class ()			
	class CLASSNAME { }			
	class CLASSNAME: { }			
	Class CLASSNAME ()			
Q.37	Which of the following method of class String is used to obtain a length of a String object ?	1	CO3	BT1, BT2
	lengthof()			
	○ len()			
0	○ get0			
	○ Sizeof()			
	○ None of these			
Q.3 8	Fill the missing line in the following code	1	CO3	BT2, BT3, BT4,
	String s6="one:two:three:four:five:six";			вт5
	for(String st:strarr)			
	System.out.println(st);			
	} * [] (1 Point)			
6.	String strarr[]=s6.split(":")			
	String strarr=s6.split(":");			
	String strarr[][]=s6.split(":");			
3 0	() String strarr[]=s6.split():			

Q.39	Following statements are related to Streams in Java (1) Streams are Unidirectional (2) Based on single unit of data, Java has Byte based and Character based streams (3) If data flows from Input device towards Java program then such stream is called InputStream (4) If data flows from Java program towards output device then such stream is called OutputStream Statements 2.3. and 4 are true All are false Statements 1. 3 and 4 are true	1	CO4	BT2, BT3, BT4
	Statements 1 and 2 are true			
Q.40	In threading methods ensures that, the main thread ends at last, after all the child thread have completed their process. ~ [1] (1 Point) join() sleep() currentStatus() getPriority()	1	CO3	BT2, T3, BT4

***********End of Question Paper*********