Code No. : 13145 S (D)

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD
Accredited by NAAC with A++ Grade

B.E. III-Semester Supplementary Examinations, August-2022

Object Oriented Programming using Java (OE-I)

Time: **3 hours**   Max. Marks: **60**

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	Define JVM and explain its significance	2	1	1	1
2.	Analyze and write the output for the following code? **class A** **{** **final void meth()** **{** **System.out.println("method in class A");** **}}** **class B extends A** **{** **void meth()** **{** **System .out.println("method in class B");** **}}**	2	4	1	2
3.	Differentiate between checked and unchecked exceptions.	2	2	2	1
4.	Analyze and write the output for the following code? **class Exc** **{** **public static void main(String args[]) {** **int d=0;** **int a=42/d;** **System.out.println(a);** **}** **}**	2	3	2	2
5.	State any one difference between character and byte streams.	2	1	3	1
6.	Name the built-in class which is the super class of all the classes and list any two methods of that class.	2	1	3	1
7.	List different AWT controls	2	1	4	1
8.	Compare TextField and TextArea?	2	2	4	1

			M	L	CO	PO
9.		Identify the usage of super keyword?	2	2	1	1
10.		Distinguish between "throw" and "throws" keywords used in Exception handling.	2	2	2	1

Part-B (5 × 8 = 40 Marks)

			M	L	CO	PO
11.	a)	Explain various access specifiers and their visibility in Java with an example.	3	2	1	1
	b)	Write a program to implement Polymorphism.	5	3	1	2
12.	a)	What is an Exception? Illustrate the significance of exception handling mechanism in Java.	3	1	2	1
	b)	Write a program to implement Exception Handling.	5	4	2	2
13.	a)	Demonstrate with an example the usage of File class to handle Files and Directories.	3	2	3	1
	b)	By Applying the BufferedInputStream class Write a Java program which reads a text file "demo.txt" and displays its contents on the console. If the file is not present the program must handle the exception.	5	3	3	2
14.	a)	Illustrate the significance of Delegation Event Model with an example.	3	2	4	1
	b)	Write a GUI based Java program to calculate and display Simple Interest. Use text boxes to take input. After clicking the button named "CALCULATE" the program must display Simple Interest on the label. (Simple Interest=Principle*Rate of Interest*Time/100).	5	3	4	2
15.	a)	Compare and contrast Abstract class and Interface with respect to the abstract methods and class attributes.	4	1	1	1
	b)	Demonstrate with an example the usage of multiple catch blocks.	4	3	2	2
16.	a)	Demonstrate the significance of Wrapper classes in java.	4	2	3	1
	b)	Explain different Event Listeners available in Java along with the corresponding methods.	4	2	4	1
17.		Answer any *two* of the following:				
	a)	Compare Method Overloading and Overriding along with an example	4	2	1	1
	b)	Explain user defined exceptions with an example.	4	2	2	1
	c)	Distinguish between String and StringBuffer and also provide an example where they can be used.	4	3	3	2

M : Marks;   L: Bloom's Taxonomy Level;   CO; Course Outcome;   PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	40%
iii)	Blooms Taxonomy Level – 3 & 4	40%

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