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**COER University****END SEMESTER EXAMINATION, EVEN SEM 2022-23 (BACK PAPER)****Time : 3 hours****Program Name : BCA****Course Name : Paradigm of OOPS Concepts Using Java****Total Marks : 100****Semester : II****Course Code : SOC154****Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.**

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Explain the characteristics of Object Oriented Programming.	CO 1	2
(b)	Explain the various data types in Java and provide examples of their usage.	CO 1	2
(c)	Explain the if-else statement in Java programming?	CO 1	2
(d)	Write a program to find the number even or odd.	CO 1	1
(e)	Describe the concept of arrays in Java and write a program to find the sum of numbers in the given array.	CO 1	1

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Define inheritance in Java. Also explain the different type of inheritance.	CO 2	2
(b)	Discuss the use of abstract methods in Java.	CO 2	1
(c)	Explain the concept of an interface in Java.	CO 2	1
(d)	Explain the Object and abstract class in Java and describe the methods it provides.	CO 2	1
(e)	Describe the process of casting objects in Java and explain with a suitable example.	CO 2	1

Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Define concept of event handling in Java.	CO 3	2
(b)	Write a program to design a GUI based Calculator application which perform addition, Subtraction, multiplication and division operation on integers?	CO 3	1
(c)	Explain the concept of Swing package.	CO 3	1
(d)	Explain the concept of layout managers including flow layout, border layout, and grid layout.	CO 3	2
(e)	Explain the life cycle of an applet in Java.	CO 3	2

Q. No 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Explain the byte oriented classes with syntax.	CO 4	2
(b)	Explain the concept of object I/O and provide examples of its usage.	CO 4	2
(c)	Explain the purpose of Binary I/O classes in Java programming?	CO 4	2

Q. No 5	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Explain the life cycle of thread in details.	CO 5	2
(b)	Discuss the concept of JavaBeans and networking in java.	CO 5	2
(c)	What is network programming in Java? Explain the different classes and interfaces used for network programming.	CO 5	1

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