Graphic Era
HILL UNIVERSITY
Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)
University under section 2(f) of UGC Act, 1956

Mid Term (Odd Back) Examination November 2025

Roll no.............................

Name of the Program: B.C.A .   Semester: V
Name of the Course: Java Programming   Course Code: TBC 501

Time: 1-1/2 Hour   Maximum Marks: 50

Note:
(i)   Answer **all the questions** by choosing *any one of the sub questions*.
(ii)   Each question carries 10 marks

Q1	(10 marks)	
(a)	Discuss the salient features of Java programming language. How Java is different from C and C++?	CO1
	OR	
(b)	Discuss various loop statements and branching statements available in Java? Show their syntax.	
Q2	(10 marks)	
(a)	What is inheritance? Explain different forms of inheritance.	CO1
	OR	
(b)	Explain the following: (a)JDK (b)JRE (c)JVM (d)Garbage collection	
Q3	(10 marks)	
(a)	What is multithreading programming in Java? Describe the complete life cycle of thread with help of a diagram.	CO2
	OR	
(b)	What is exception? Explain different kinds of exceptions in java. Differentiate between checked and unchecked exception with example.	
Q4	(10 marks)	
(a)	What is meant by Java package? Explain various ways to access package from another package?	CO1
	OR	
(b)	What is string in java? Explain difference between string and String Buffer in Java?	
Q5	(10 marks)	
(a)	Explain any five object-oriented features supported by java with examples.	CO1
	OR	
(b)	What is the difference between method overloading and overriding in java? Give examples in support of your answer.	

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