

Roll No: \_\_\_\_\_

**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

Affiliated to Dr. A.P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

Course B.Tech Branch CSE

Semester 3<sup>rd</sup> Sessional Examination III Year- (2021 – 2022)

Subject Name: OBJECT ORIENTED TECHNIQUES USING JAVA

Time: 1.15Hours

[SET- B]

Max. Marks: 30

**General Instructions:**

- This Question paper consists of 2 pages & 5 questions. It comprises of three Sections, A, B, and C
- **Section A** -Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.
- **Section B** -Question No-3 is Short answer type questions carrying 5 marks each. Attempt any two out of three questions given.
- **Section C** -Question No. 4 & 5 are Long answer type (within unit choice) questions carrying 6 marks each. Attempt any one part a or b.

SECTION – A			[08Marks]	
1.	All questions are compulsory		(4×1=4)	
a.	The class that is used to implement multithreading in java? a) Multithreading b) Thread c) Interface d) none of the above		(1)	CO4
b.	Which of this method of class StringBuffer is used to concatenate the string representation to the end of invoking string? a) concat() b) append() c) join() d) concatenate()		(1)	CO3
c.	When a thread stops its execution or is stopped (killed) by another thread, the thread is called in which state? a) killed b) Stopped c) Dead d) All of the mentioned		(1)	CO4
d.	Exception is a _____ a) Class b) Interface c) Abstract class d) other		(1)	CO3
2.	All questions are compulsory		(2×2=4)	
a.	Explain annotation.		(2)	CO4
b.	How can we catch all types of exceptions?		(2)	CO3
SECTION – B			[10Marks]	
3.	Answer any <u>two</u> of the following-		(2×5=10)	
a.	What is throw clause? Why do we use it?		(5)	CO3
b.	Explain synchronized block with respect to multithreading and concurrency in java.		(5)	CO4
c.	How Can We Create a String Object in Java?		(5)	CO3
SECTION – C			[12Marks]	
4.	Answer any <u>one</u> of the following-		(1×6=6)	



	a.	Explain the types of thread with example.	(6)	CO4
	b.	Explain the meaning and purpose of following keywords in java: Abstract, final, throws, catch.	(6)	CO3
5.	Answer any <u>one</u> of the following-		(1×6=6)	
	a.	What is string buffer class? How it is different from string class?	(6)	CO3
	b.	Three threads T1, T2, and T3 have the priorities 2, 7, 10 respectively. Which of these threads can possibly be starved, if the thread with the greatest priority will be executed very first? Give reason to support your answer.	(6)	CO4