

**DEPARTMENT OF DATA SCIENCES AND INTELLIGENT SYSTEMS**  
**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DHARWAD**

**MID SEMESTER EXAMINATION, OCTOBER 2021**

**CS207: OBJECT ORIENTED PROGRAMMING**

**Class: III SEM B. TECH (DSIS)**

**Date: 11 / 12 / 2021**

**Time: 1 Hour.**

**Marks: 40**

**Register No.**

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**NOTE: 1. Answer All Questions to the point.**

**2. Give suitable examples wherever necessary.**

**3. Make reasonable assumptions and state them.**

Q. No.	Questions	Marks	BT
<b>Q1.</b>	Consider <a href="http://www.cowin.gov.in">www.cowin.gov.in</a> (Covid-19 vaccination center in India). Design the following interaction modeling diagrams by considering all the cases.		L5 L6
	a. Use Case diagram,	[8]	
	b. Sequence diagram and	[8]	
	c. Activity diagram	[8]	
<b>Q2.</b>	Discuss the differences between Procedure Oriented Programming and Object-Oriented Programming. Explain with examples.	[6]	L1
<b>Q3.</b>	Summarize the access modifiers in C++ with examples. Explain the advantages of access modifiers.	[6]	L2
<b>Q4.</b>	(a) Write the Java program using threads to copy the numbers of two arrays into third array. One of the run() method should copy the numbers into the third array from the starting index of the third array Another run() method should copy the numbers into the third array from the end index of the third array	[7]	L3 L4 L5 L6

	(b) Write the Python program using threads by thread pool executor to copy the numbers of two arrays into third array. One of the method should copy the numbers into the third array from the starting index of the third array Another method should copy the numbers into the third array from the end index of the third array	[7]	
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BT: The levels of Bloom's Taxonomy (BT): L1: Knowledge, L2: Understand, L3: Apply, L4: Analyze, L5: Evaluate and L6: Create.

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