

2111000606010001
EXAMINATION FEBRUARY-MARCH 2024
B.SC. (I.T.)(M.SC.(I.T.) 5 YEAR INTEGRATED COURSE)
(SIXTH SEMESTER)
JAVA - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **B.SC. (I.T.)(M.SC.(I.T.) 5 YEAR INTEGRATED COURSE)(SIXTH SEMESTER)**
- b. Name of the Subject: **JAVA – LEVEL 1**
- c. Subject Code No: **2111000606010001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the Following:

14

1. What does fork (), join () and invoke () functions do? **3**
2. What are the transaction management explaining the functions available in java for it? **3**
3. What is a blocked thread and suspended Thread? **4**
4. Differentiate Vector and Arrays? **4**

Q.2 Do as instructed-

14

1. Differentiate List, Set and Map. Give an example for a Hashtable. **5**

OR

1. Write the difference between abstract class and an interface. Explain when do you create them. **5**

2. Explain Collection Framework in Java.	5
3. Explain Statement Class and its function in detail with example	4
Q.3 Do as Directed-	14
1. Discuss Generics and illustrate it with an example.	5
OR	
1. Explain deadlock with an example.	5
2. What is thread in Java? What are the different ways to create Thread in java?	5
3. What are different access specifier in Java? Explain them in detail.	4
Q.4 Do as Directed:	14
1. Explain Thread Lifecycle with neat diagram.	5
OR	
1. Create a negative exception (User defined); that raises when user enters negative number.	5
2. Write a note on features of java.	4
3. What are 'Super' and 'this' keyword? Write a program using these keywords.	5
Q.5 Do as Directed	14
1. What is the use of generic? Explain with example.	5
2. What is synchronization? Explain with an example.	5
OR	
2 Explain System Packages in Java. Explain packges are created?	5
3 Differentiate Array List and Vector.	4
