

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER: VI
SESSION: SP/2025**

SUBJECT: CA351 INTRODUCTION TO DISTRIBUTED COMPUTING

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	Explain basic concepts of Operating System in detail.	[5] 1	1
Q.1(b)	Write a short note on: a) Data Representation b) Sequence Diagram	[5] 1	1
Q.2(a)	Explain Client Server paradigm with neat diagram.	[5] 2	2
Q.2(b)	Draw and explain the Remote Procedure Call Modal.	[5] 3	3
Q.3(a)	Explain in detail the Stream Mode Socket API.	[5] 3	4
Q.3(b)	Differentiate between Iterative server Vs Concurrent server.	[5] 4	3
Q.4(a)	Write about Distributed objected systems in detail.	[5] 3	3
Q.4(b)	Explain The Java RMI Architecture with neat diagram.	[5] 3	3
Q.5(a)	What is Multicast API? What are the major differences in Connectionless and Connection-Oriented Multicast?	[5] 4	4
Q.5(b)	Briefly write about Reliable Multicasting versus Unreliable Multicasting.	[5] 4	4

:::25/04/2025:::M