

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)**

**CLASS: BCA
BRANCH: BCA**

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

SUBJECT: CA351 INTRODUCTION TO DISTRIBUTED COMPUTING

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	What is meant by distributed computing?	[2] 1	1
Q.1(b)	Describe the strengths & weaknesses of distributed computing.	[3] 2	2
Q.2(a)	What is deadlock?	[2] 2	3
Q.2(b)	Write about the following: a) Data marshalling b) Event diagram	[3] 3	4
Q.3(a)	Brief write about Message Passing Paradigm.	[2] 1	1
Q.3(b)	Explain in detail The Peer-to-Peer Paradigm for distributed applications.	[3] 2	2
Q.4(a)	Explain the Remote Method Invocation (RMI) paradigm.	[2] 3	3
Q.4(b)	Explain in detail The Network Services Paradigm.	[3] 3	3
Q.5(a)	Differentiate between Connection-oriented & connectionless datagram socket.	[2] 3	3
Q.5(b)	Explain in detail Datagram socket API.	[3] 4	4

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