

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2024)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : VI
SESSION : SP/2024**

SUBJECT: CA356 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
-

			CO	BL
Q.1(a)	What is process? Give the state transition diagram of a process	[2]	CO1	BL1
Q.1(b)	Explain the different forms of computing	[3]	CO2	BL2
Q.2(a)	Define timeouts. What is its significance?	[2]	CO2	BL2
Q.2(b)	Compare Connection-oriented and Connectionless Interprocess Communication.	[3]	CO3	BL4
Q.3(a)	What is paradigm? Give different distributed computing paradigms and their level of abstraction.	[2]	CO1	BL2
Q.3(b)	Explain the client server paradigm in detail	[3]	CO3	BL1
Q.4(a)	What is the role of remote procedure call?	[2]	CO1	BL2
Q.4(b)	Explain Mobile Agent Paradigm in detail.	[3]	CO4	BL1
Q.5(a)	What is the role of socket API ?	[2]	CO2	BL2
Q.5(b)	Compare User Datagram Protocol(UDP) and Transmission Control Protocol(TCP).	[3]	CO4	BL3

:21/02/2024:M