BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: B. TECH   SEMESTER: V
BRANCH: CSE & IT   SESSION: MO/2022

SUBJECT: IT322 CLOUD COMPUTING

TIME: 2 HOURS   FULL MARKS: 25

INSTRUCTIONS:
1. The total marks of the questions are 25.
2. Candidates attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

				CO	BL
Q1	(a)	Define Cloud Computing and summarize the core features of cloud computing.	[2]	CO1	BL1, BL2
Q1	(b)	Give a brief discussion on the evolution of cloud computing and also enlist the advantages of cloud computing.	[3]	CO1	BL1, BL2
Q2	(a)	With the use of an appropriate illustration, briefly describe the cloud computing reference model.	[2]	CO1	BL1, BL3
Q2	(b)	Demonstrate what do you understand by service-oriented computing framework? How does it support cloud computing?	[3]	CO1, CO2	BL2
Q3	(a)	Discuss the benefits of parallel processing that make it a relevant computing solution.	[2]	CO1	BL2
Q3	(b)	Identify the key differences between distributed and parallel computing. Enumerate the different programming approaches to achieve parallelism.	[3]	CO1	BL2
Q4	(a)	Enlist the most important software architectural styles for distributed computing.	[2]	CO1, CO2	BL1
Q4	(b)	Demonstrate the different inter process communication models used for distributed systems?	[3]	CO1, CO2	BL3
Q5	(a)	Enlist the different models for message-based communication.	[2]	CO1	BL1
Q5	(b)	Explain virtualization in terms of cloud computing. Discuss briefly how virtual machine instances are different from container instances.	[3]	CO1, CO2	BL4, BL2

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