K. K. Wagh Institute of Engineering Education & Research, Nashik

(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-IISummer2025	
Exam Seat No.:	
Academic Year:2024-2025	Semester:VI
Class:TY	Program:B.Tech
Branch Code:ROB	Pattern:2022
Name of Course:Cloud Computing	Course Code:ROB223014(D)
Max. Marks:30	Duration:1.15 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 01 page.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

		Marks	CO
Question No. 1			
1 a)	What is meant by "resource pooling" in cloud computing? How does this concept support the multi-tenant model? Provide an example of how this might work in practice.	(7)	CO1
Question No. 2			
2 a)	Compare and contrast the Client-Server, Peer-to-Peer (P2P), Cloud Computing, and Server Virtualization architectures in terms of their structure, roles of components, scalability, and resource management. How do these architectures impact flexibility, security, and performance in a computing environment? Provide examples of each model in real-world applications.	(8)	CO1
	OR		
2 b)	Define cloud computing and distributed computing. Describe, how cloud computing fits into the distributed computing model?	(8)	CO1
Question No. 3			
3 a)	Evaluate the advantages and challenges of using Network as a Service (NaaS) for businesses that rely on cloud-based networking solutions. How does NaaS enhance flexibility, cost management, and network scalability? Include examples of its applications in large organizations.	(7)	CO2
Question No. 4			
4 a)	Describe the benefits of Identity as a Service (IdaaS) in managing user authentication and access control in cloud environments. Explain, how does IdaaS improve security and operational efficiency for organizations? Provide examples of its implementation.	(8)	CO2
	OR		
4 b)	Discuss, how does " interoperability " contribute to the scalability of network in cloud computing services? Provide an example of how this might work in practice.	(8)	CO2

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