



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: VI
Class: TY	Program: B.Tech
Branch Code: ADS/COM/CSD	Pattern: 2022
Name of Course: Cloud Computing	Course Code: COM223015(A)
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 1 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.

Marks CO

Question No. 1

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| 1 a) Discuss the importance of cloud computing in modern IT infrastructure. | (4) | CO1 |
| 1 b) Explain the trends in computing and how they influence cloud computing. | (3) | CO1 |

Question No. 2

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| 2 a) Describe the logical architecture of cloud computing. | (4) | CO1 |
| 2 b) Discuss the different cloud service models with real-time examples. | (4) | CO1 |

Group OR

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| 2 c) Explain the cloud system architecture with a suitable diagram. | (4) | CO1 |
| 2 d) Explain the different cloud deployment models with their use cases. | (4) | CO1 |

Question No. 3

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| 3 a) What is storage area network (SAN)? Explain its role in enterprise data storage. | (4) | CO2 |
| 3 b) Describe the concept of cloud data stores and their advantages. | (3) | CO2 |

Question No. 4

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| 4 a) What are data-intensive technologies for cloud computing? Explain with examples. | (4) | CO2 |
| 4 b) Discuss the role of data provisioning in cloud storage. | (4) | CO2 |

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| 4 c) Explain the working of Hadoop Distributed File System (HDFS) in detail. | (4) | CO2 |
| 4 d) Discuss the concept and need for data storage management in cloud environments. | (4) | CO2 |

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