



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

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:VI
Class:TY	Program:B.Tech
Branch Code:INT	Pattern:2022
Name of Course: Cloud Computing	Course Code:INT223015A
Max. Marks:60	Duration:2.30 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 02 page(s).
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**

- 1a) Discuss Cloud Deployment Models with suitable diagram? (6) CO1

**Question No. 2**

- 2a) Explain the functionality of hypervisor? What is type-1 and type-2 hypervisor? (6) CO2

**Question No. 3**

- 3a) Explain how Amazon Web Services (AWS) provides infrastructure for building scalable applications. (5) CO3

**OR**

- 3b) Explain how AWS provides flexibility in computing and storage (5) CO3

- 3c) Explain Microsoft Azure with its application. (5) CO3

**OR**

- 3d) Enlist an application of cloud computing in different Area? Describe any two applications? (5) CO3

- 3e) Compare and contrast the LAMP and LAPP stack in the context of Cloud platforms. (6) CO3

**OR**

- 3f) Compare AWS (Amazon Web Services) and Microsoft Azure in terms of their core services, features, and cloud computing capabilities. (6) CO3

**Question No. 4**

- 4a) Explain SQL Azure in detail? (5) CO4

**OR**

- 4b) Explain virtual machine migration technique in detail? (5) CO4

- 4c) Explain how data integrity is maintained in Cloud storage systems. (5) CO4

**OR**

4d) What is AWS? What are the services provided by AWS? (5) CO4

4e) What is the purpose of backup and restore solutions in Cloud environments? (6) CO4

**OR**

4f) Describe the different steps for configuring Amazon EC2 VM instance? (6) CO4

**Question No. 5**

5a) How the HDFS Architecture works? Explain it with suitable diagram? (5) CO5

**OR**

5b) Explain the features of GFS Architecture? (5) CO5

5c) Write a note on : (5) CO5

a) ZigBee,

b) Wi-Fi,

c) Bluetooth in IoT communications.

**OR**

5d) Describe the Trends in Cloud Computing? (5) CO5

5e) Identify the different components of AWS? (6) CO5

**OR**

5f) How the Cloud and IoT together works for Home Automation? (6) CO5

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