

R18

Code No: 157AW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February - 2025

CLOUD COMPUTING

(Common to CSE, IT, CE(SE), CSE(DS))

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Define Cloud Computing. [2]
- b) Explain the importance of Distributed Computing in modern systems. [3]
- c) Define Cloud Computing as a Service. [2]
- d) List the five essential characteristics of Cloud Computing. [3]
- e) What is Cloud Architecture? [2]
- f) List and explain the main phases of Cloud Migration. [3]
- g) Define Infrastructure as a Service (IaaS). [2]
- h) What are the characteristics of PaaS? [3]
- i) What is Amazon Simple Storage Service (S3)? [2]
- j) Discuss one use case of Rackspace cloud services. [3]

PART – B

(50 Marks)

- 2.a) Compare and contrast Nano computing and optical computing.
 - b) Discuss the similarities and differences between Cluster Computing and Grid Computing. [5+5]
- OR**
- 3.a) Explain the applications of high-performance and high throughput systems.
 - b) Describe the role of mobile computing and its relation to cloud computing. [5+5]

- 4.a) Analyze the factors that motivate enterprises to shift to Cloud Computing.
- b) Explain the need for Cloud Computing in IT infrastructure today. [5+5]

OR

- 5.a) Discuss the challenges organizations face while implementing Cloud Computing.
- b) Compare the four cloud deployment models and explain their pros and cons. [5+5]

- 6.a) Explain the anatomy of the cloud with suitable examples.
- b) Compare various approaches to Cloud Migration and their effectiveness. [5+5]

OR

- 7.a) Assess the role of network connectivity in optimizing Cloud performance.
- b) Explain the importance of managing cloud applications. [5+5]

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- 8.a) Describe the IaaS model with its features, pros, and cons.
- b) Provide a business scenario where SaaS is preferred over traditional software delivery.[5+5]

OR

QA QA QA QA QA QA QA QA QA G

- 9.a) How does SaaS differ from traditional software delivery methods? [5+5]
- b) Compare PaaS and SaaS in terms of their suitability for businesses.

- 10.a) Explain the role of Microsoft Azure in cloud computing.
- b) Provide an example of how SAP HANA Cloud Platform benefits enterprise data management. [5+5]

OR

QA QA QA QA QA QA QA QA QA G

- 11.a) Describe the features of Google Cloud Platform.
- b) Compare the cloud services provided by Amazon and Microsoft. [5+5]

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QA QA QA QA QA QA QA G