

Code No: 157AW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, January/February - 2023****CLOUD COMPUTING****(Common to CSE, IT)****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) Why is it necessary to understand the various computing environments? [2]
- b) How parallel computing differs from Distributed computing? [3]
- c) What is cloud computing? [2]
- d) State the need for cloud computing. [3]
- e) What is public cloud access networking? [2]
- f) Describe Elasticity and Multitenancy properties in brief. [3]
- g) What do you mean by Desktop as a Service cloud mode? [2]
- h) Write down the pros and cons of Platform as a service. [3]
- i) What is the main purpose of Google Cloud Connect? [2]
- j) Give an overview of Google App Engine cloud service. [3]

PART – B**(50 Marks)**

2. What is High-Performance computing? Describe the need of HPC taking any two real case scenarios. [10]

OR

- 3.a) How a cluster computing differs from cloud computing? State the need for cluster computing and grid computing.

- b) Give a detail note on Quantum computing and Optical computing. [5+5]

4. What are the principles of cloud computing? Explain in detail. [10]

OR

- 5.a) Examine and present the motivation of Cloud computing.

- b) Present the basic requirements for cloud services. [5+5]

6. Provide and overview about application migration to the cloud. [10]

OR

- 7.a) Write a detail description about managing the cloud.

- b) Give an insight on the anatomy of the cloud. [5+5]

8. How the Platform as a Service changes the application developer? Provide a detailed overview of the Platform as a service of the cloud. [10]

OR

9.a) Write down the characteristics of Software as a Service cloud model.

b) Discuss about the deployment and delivery of cloud service models. [5+5]

10. Describe various services provided by IBM SmartCloud in detail. [10]

OR

11.a) Give an overview of Windows Azure cloud services.

b) "Salesforce.com is a cloud computing and social enterprise SaaS provider". Justify your answer. [5+5]

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