

R16

Code No: 137BC

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) Define optical computing. [2]
- b) List few drawbacks of grid computing. [3]
- c) What is the motivation of cloud computing? [2]
- d) List down the principles of cloud computing. [3]
- e) Why do we need a hybrid cloud? [2]
- f) What are the different layers available in cloud architecture design? [3]
- g) Define Platform as a Service. [2]
- h) What are the characteristics of PaaS? [3]
- i) What is the purpose of google cloud print? [2]
- j) Explain the VMware concept. [3]

PART – B

(50 Marks)

2. Explain in detail the underlying principles of Parallel computing and Distributed Computing. [10]

OR

- 3.a) Outline the similarities and differences between distributed computing, grid computing and cloud computing.

- b) Outline the architecture of cluster cooperative computers with a diagram [5+5]

4. Describe in detail about the motive and need for cloud computing in a real time scenario. [10]

OR

5. List the cloud deployment models and give a detailed note about them. [10]

6. With a neat diagram, explain the architecture of cloud computing. [10]

OR

7. Describe in detail about the various approaches for Cloud Migration. [10]

QA QA QA QA QA QA QA G

- 8.a) List down the characteristics of Software as a service.
- b) Explain the Pros and cons of Infrastructure as a Service. [5+5]

OR

QA 9.a) Describe in detail about the Sustainability of Software as a Service. QA QA QA QA QA QA QA G
b) Explain the pros and cons of Platform as a Service. [5+5]

- 10.a) Explain the services provided by Amazon Elastic Compute Cloud(EC2).
- b) Discuss briefly about Microsoft assessment and planning toolkit. [5+5]

OR

11. With a neat diagram, explain in detail about the architecture of ANEKA framework.[10]

QA QA QA QA QA QA QA QA QA QA QA QA QA G
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QA QA QA QA QA QA QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA QA QA QA QA QA QA G