

**R18**

**Code No: 157AW**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, December-2023/January-2024**

**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 Cluster Computing. [2]
- b) How cluster computing differs from grid computing? [3]
- c) Define cloud computing. [2]
- d) State the need for cloud computing. [3]
- e) Why are SLAs important? [2]
- f) What are the unique properties of cloud applications? [3]
- g) What do you mean by Network as a Service cloud mode? [2]
- h) Write down the pros and cons of Infrastructure as a Service. [3]
- i) What is the main purpose of Google Cloud Print feature? [2]
- j) Give an overview of the services offered by EMC. [3]

**PART – B**

**(50 Marks)**

2. Describe various computing environment with their pros and cons. [10]

**OR**

- 3.a) How an electrical power grid differs from grid computing? Discuss in detail. [5+5]
- b) What is parallel computing? Explain in detail about parallel computing. [5+5]

4. Explain the five essential characteristics of cloud computing in detail. [10]

**OR**

- 5.a) What are the four cloud deployment models? Discuss briefly. [5+5]
- b) Write down the benefits and drawbacks in cloud computing. [5+5]

6. Provide an overview of the Cloud architecture. [10]

**OR**

- 7.a) Give a detail description about application in the cloud. [5+5]
- b) Describe the role of network connectivity in the cloud. [5+5]

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8. How the Infrastructure as a Service changes the application developer? Provide a detailed overview of the Infrastructure as a Service (IaaS) of the cloud. [10]

**OR**

9.a) Explain the suitability of Software as a Service cloud model in detail.

b) Write down the characteristics of IaaS.

[5+5]

10. Describe various cloud features and services provided by Amazon Web Services. [10]

**OR**

11.a) Give a brief overview of Aneka Platform.

b) Explain SAP HANA cloud services in brief.

[5+5]

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