Code No: 157AW

<div style="text-align:right">**R18**</div>

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

<div style="text-align:right">**(25 Marks)**</div>

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

<div style="text-align:right">**(50 Marks)**</div>

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

<div style="text-align:center">**OR**</div>

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]

<div style="text-align:center">**OR**</div>

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]

<div style="text-align:center">**OR**</div>

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]

---ooOoo---