



R20 Regulation

Subject code: 3E6HD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, November 2025

CLOUD COMPUTING

(CSE(DS))

Maximum Marks: 70

Date: 13.11.2025

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	Write about the computational grids.	2M	1	L1
2	List any three services offered by cloud.	2M	1	L1
3	What is the purpose of Storage virtualization?	2M	2	L1
4	Write the high availability and data recovery.	2M	2	L1
5	What is the Open nebula?	2M	3	L1
6	What is lease scheduling?	2M	3	L1
7	What are the business benefits of cloud computing?	2M	4	L1
8	Write the Virtual administration in cloud.	2M	4	L1
9	Define data Interoperability in cloud.	2M	5	L1
10	Write the software Vulnerability and Breaches in cloud.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Elucidate Network threats and data integrity.	5M	1	L2
	b) Briefly explain the design principles of computer clusters.	5M		
OR				
12	a) Explain system models for distributed and cloud computing.	5M	1	L2
	b) What are the design objectives of computer clusters?	5M		
13	a) Describe various deployment models in cloud.	5M	2	L2
	b) Elucidate hardware virtualization.	5M		
OR				
14	a) Explain the functions and types of Hypervisors.	5M	2	L2
	b) Describe the features, challenges and risks in cloud computing.	5M		
15	Explain the architecture of Eucalyptus.	10M	3	L2
OR				
16	Explain the implementation of hybrid cloud.	10M	3	L2
17	a) Explain a model for federal cloud computing.	5M	4	L2
	b) Explain the best practices to build an application on cloud.	5M		

	OR			
18	a) Describe the model for federated cloud computing. b) Elucidate SLA management in cloud.	5M 5M	4	L2
19	a) Explain the Organizational Readiness Self-Assessment. b) Describe the Lewin's Change Management Model..	5M 5M	5	L2
	OR			
20	a) Distinguish Cloud Computing from Outsourcing and Provision of Application Services. b) Explain the Cloud service lifecycle.	5M 5M	5	L2