



R20 Regulation

Subject code: 3E6HD

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

**B.Tech VI Semester Regular/Supplementary Examinations, July 2024**

## CLOUD COMPUTING (CSE (DATA SCIENCE))

**Maximum Marks: 70**

Date:26.07.2024 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 which carries 10M.
  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)		CO	Bloom Tx
1	Define Cloud Computing.	CO1	L1
2	What is utility computing?	CO1	L1
3	Why SaaS Integration is hard?	CO2	L1
4	Define Homogeneous Clouds	CO2	L1
5	List characteristics of hybrid clouds.	CO3	L4
6	Define Cloud bursting.	CO3	L1
7	Outline the types of SLA.	CO4	L2
8	List any 2 technical benefits of cloud computing.	CO4	L4
9	What are the factors influence the decision of compute server selection?	CO5	L1
10	Outline the challenges faced by the cloud service providers.	CO5	L2

### Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Explain about the features of Cloud computing and its types. (10M)	CO1	L3
OR			
12.	Explain in detail convergence of various advances leading to the advent of cloud computing. (10M)	CO1	L3
13.a)	List and explain the challenges of SaaS paradigm. (5M)	CO2	L2
b)	Write detailed note on Microsoft internet service bus and B2BI services. (5M)	CO2	L2
OR			
14	Outline the general deployment models for enterprise cloud computing. (10M)	CO2	L2
15.a)	Discuss in detail layered virtualization technology architecture. (5M)	CO3	L2
b)	Explain live migration's mechanism and how memory and virtual machine states are being transferred with the example of Xen hypervisor. (5M)	CO3	L3
OR			
16.a)	Explain and illustrate virtual machine provision and migration services. (5M)	CO3	L2
b)	Illustrate Aneka framework architecture with neat sketch. (5M)	CO3	L2

17.a)	Describe in detail three-tier system of SAP and federated cloud system. (5M)	CO4	L4
b)	Elaborate Key components of a Service-Level Agreement. (5M)	CO4	L6
	OR		
18.a)	Summarize the differences between HPC classical environment and HPC in clouds. (5M)	CO4	L4
b)	List and explain business benefits to building applications in the cloud. (5M)	CO4	L5
19	Discuss Lewin's Change Management Model in detail. (10M)	CO4	L6
	OR		
20	Explain producer consumer relationship diagram in detail (10M)	CO4	L5