Subject Code: KOE081

Paper ID : 250251

Roll No:

BTECH
(SEM VIII) THEORY EXAMINATION 2024-25
CLOUD COMPUTING

TIME: 3 HRS

M.MARKS: 100

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief.

2 x 10 = 20

Q No.	Question	CO	Level
a.	What is the difference between parallel and distributed computing?	1	K2
b.	List the five essential characteristics of cloud.	1	K2
c.	What is a Virtual Box? What are the advantages of Virtual Box?	4	K2
d.	What is Cloud Computing? What are the different types of Cloud Computing?	1	K2
e.	What is Eucalyptus?	1	K2
f.	What are the major issues in Cloud Computing?	1	K2
g.	What is CloudSim? What are the benefits of CloudSim?	1	K4
h.	What are the components of Cloud Computing Architecture?	1	K2
i.	What are the different types of Cloud Computing Services?	1	K2
j.	Differentiate between Google Cloud Platform and Microsoft Azure.	5	K3

SECTION B

2. Attempt any *three* of the following:

10 x 3 = 30

Q No.	Question	CO	Level
a.	What is Cloud Email? Discuss about the advantages and disadvantages of Cloud Email	3	K2, K4
b.	Discuss about Platform as a Service (PaaS) and its types.	2	K2
c.	What is Infrastructure as a Service (IaaS)? How does IaaS architecture work?	2	K2
d.	What is Database as a Service (DBaaS)? What are the features of DBaaS?	2	K2
e.	How Does Communication as a Service (CaaS) work? Discuss about the advantages and drawbacks of CaaS.	2	K2,K4

SECTION C

3. Attempt any *one* part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	What is Software as a Service (SaaS)? How does a SaaS work? What are the challenges and risks of SaaS?	2	K2, K3
b.	What is Customer Relationship Management (CRM)? What does a CRM system do? Discuss about the importance of CRM system.	3	K2, K3

4. Attempt any *one* part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	What is Project Management? What are the features of Project Management? Discuss about the different phases of Project Management in detail.	3	K2

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b.	What are the major need of Virtualization? What are the Pros and Cons of Virtualization in Cloud Computing? Discuss about the Virtualization reference model in detail.	4	K2, K4

5. **Attempt any *one* part of the following:** 10 x 1 = 10

Q No.	Question	CO	Level
a.	Discuss about Virtual Machine and its type. What are the advantages and disadvantages of binary translation?	4	K2
b.	What is Hypervisor? Discuss about the different types of Hypervisor with their Pros and Cons.	4	K2, K3

6. **Attempt any *one* part of the following:** 10 x 1 = 10

Q No.	Question	CO	Level
a.	What do you mean by cloud security and its planning? What are the different types of cloud security controls? Discuss about the importance of cloud security.	5	K2, K3
b.	Discuss about the security threats in implementing SaaS of Cloud Computing. https://www.aktuonline.com	5	K2, K5

7. **Attempt any *one* part of the following:** 10 x 1 = 10

Q No.	Question	CO	Level
a.	What is Hadoop? Discuss about the main component, key features, advantages and disadvantages of Hadoop.	5	K2, K4
b.	What is Google App Engine (GAE)? Discuss about the features and advantages of GAE in detail.	5	K2