

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2024

Subject Code:3170717

Date:30-11-2024

Subject Name: Cloud Computing

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

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|------------|---|-----------|
| Q.1 | (a) Define Cloud computing and write advantage of it. | 03 |
| | (b) Describe Virtual machine and its role in Cloud computing. | 04 |
| | (c) Describe challenges and application of cloud computing. | 07 |
| Q.2 | (a) Describe the use of Load Balancer in Cloud. | 03 |
| | (b) Describe application porting with example. | 04 |
| | (c) Describe various layers of Cloud computing. | 07 |
| | OR | |
| | (c) Describe Virtual machine migration. | 07 |
| Q.3 | (a) What is machine imaging? | 03 |
| | (b) Describe virtual cluster. | 04 |
| | (c) Describe Cloud Deployment models. | 07 |
| | OR | |
| Q.3 | (a) Discuss services provided by SaaS. | 03 |
| | (b) Discuss SLA in cloud computing. | 04 |
| | (c) Describe various types of Hypervisor with their advantage and disadvantage. | 07 |
| Q.4 | (a) Describe Digital signature. | 03 |
| | (b) Describe billing and metering services. | 04 |
| | (c) Compare Various cloud service providers. | 07 |
| | OR | |
| Q.4 | (a) Discuss disaster recovery in cloud in brief | 03 |
| | (b) Write note on emerging cloud management standards. | 04 |
| | (c) Describe Inter cloud resource management. | 07 |
| Q.5 | (a) Discuss Xen in brief. | 03 |
| | (b) Write features of Google app engine. | 04 |
| | (c) Discuss identity management and access control in cloud computing. | 07 |
| | OR | |
| Q.5 | (a) Discuss Autonomic Security Storage Area Networks in brief. | 03 |
| | (b) Write challenges to data security in cloud. | 04 |
| | (c) Discuss Eucalyptus architecture. | 07 |
