

Cloud Computing

UNIT-02 PYQ Analysis (2022-2025)

Unit-02 Topics

- Utility Computing
 - Elastic Computing
 - AJAX
 - Mashups
 - Virtualization Technology
 - Virtualization Applications in Enterprises
 - Pitfalls of Virtualization
 - Multitenant Software
 - Multi-entity Support
 - Multi-schema Approach
 - Multi-tenancy using Cloud Data Stores
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RGPV JUNE 2025 PAPER ANALYSIS

Questions Related to Unit-02

7-Mark Questions

1. Explain the multi-schema approach in cloud databases.

 DIRECT UNIT-02 QUESTION

 MOST IMPORTANT

2. What is Sky Computing? How is it different from traditional cloud computing?

★ Related to advanced cloud concepts.

3. Discuss resource dynamic reconfiguration and its impact on cloud efficiency.

🔥 Elastic Computing related question.

4. Explain how cloud computing is used for real-time applications.

★ Related to elastic and utility computing.



RGPV DECEMBER 2024 PAPER

ANALYSIS

✓ Questions Related to Unit-02

★ 7-Mark Questions

1. What is multitenant software?

🔥 VERY IMPORTANT

🔥 REPEATED CONCEPT

2. Explain cloud Mashups in cloud computing.

🔥 AJAX + Mashup related question.

3. Summarize the parallelism for single machine computation.

★ Virtualization-related concept.

4. Explain Data Access control for enterprise application in cloud.

★ Multi-entity support related.

5. How does a cloud environment balance the workload?

🔥 Elastic computing concept.



RGPV MAY 2024 PAPER ANALYSIS

✓ Questions Related to Unit-02

★ 7-Mark Questions

1. What are hardware virtualization techniques? What are the benefits of virtualization?

🔥 MOST REPEATED QUESTION

2. Describe shortcomings of mobile device and distance clouds of mobile cloud computing.

★ Utility computing related.


3. What is cloud middleware? What is the importance of sky computing?

★ Related cloud architecture concept.


4. Why are virtual machine and virtual clusters suggested in cloud computing system?

 Virtualization application question.

5. What are inter cloud issues? Describe functions of cloud platforms.

 Medium probability.

6. What are the issues in cloud computing? How to improve performance of cloud platforms?

 Elastic/resource optimization concept.

7. Short notes:

- Virtualized Data Center
- Multitenant techniques
- Load balancing and resource optimization

 IMPORTANT SHORT NOTES



RGPV MAY 2023 PAPER ANALYSIS

 **Questions Related to Unit–02**

 **7-Mark Questions**

1. Discuss cloud Mashups with User Interface.

 DIRECT UNIT-02 QUESTION


2. What are the services provided by Virtualization? Explain in detail.

 MOST IMPORTANT

3. Explain risk from Multi-tenancy with respect to various cloud environment.

 VERY IMPORTANT

4. What is the Purpose of Mobile Cloud Computing? Explain its features.

 Related cloud utility concept.

5. Explain issues of QOS in cloud computing.

 Resource management topic.

6. Write short notes:

- Ajax
- Cloud Middleware
- Sky Computing

 VERY IMPORTANT SHORT NOTES



RGPV MAY 2022 PAPER ANALYSIS

 **Questions Related to Unit-02**

 **7-Mark Questions**

1. Differentiate between Utility computing and Elastic computing.

 MOST EXPECTED COMPARISON QUESTION

2. Discuss pitfalls of virtualization.

 VERY HIGH PROBABILITY


3. Explain virtualization hypervisor management software.

 IMPORTANT

4. Discuss major cloud features of Google application engine.

 Related cloud platform concept.

5. Explain features and functions of cloud computing platforms.

 Medium probability.

MOST REPEATED QUESTIONS (2022–2025)

Topic	Frequency
Virtualization	★★★★★★
Hypervisor	★★★★★
Utility vs Elastic Computing	★★★★★★
Mashups	★★★★★
Multitenancy	★★★★★★
AJAX	★★★★
Multi-schema approach	★★★★★
Resource Optimization	★★★★
Load Balancing	★★★★

Topic	Frequency
Cloud Middleware	★ ★ ★

PYQ-Based Expected Questions

★ VERY HIGH PROBABILITY

QUESTIONS

Most Expected 7-Mark Questions

1. Explain virtualization technology and its applications.
 2. Explain hypervisor with types.
 3. Differentiate between utility computing and elastic computing.
 4. Explain multitenant software architecture.
 5. Explain pitfalls of virtualization.
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★ HIGH PROBABILITY QUESTIONS

1. Explain AJAX architecture and working.
 2. Explain cloud mashups with example.
 3. Explain multi-schema approach.
 4. Explain multi-tenancy using cloud data stores.
 5. Explain resource optimization in cloud computing.
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★ MEDIUM PROBABILITY QUESTIONS

1. Explain cloud middleware.
2. Explain load balancing in cloud computing.

3. Explain QoS issues in cloud computing.
 4. Explain mobile cloud computing features.
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UNIT-02 EXAM TREND ANALYSIS

RGPV Mainly Focuses On:

- ✓ Virtualization and Hypervisor
 - ✓ Utility vs Elastic computing
 - ✓ Multitenancy architecture
 - ✓ AJAX and Mashups
 - ✓ Resource optimization
 - ✓ Multi-schema cloud databases
 - ✓ Load balancing concepts
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MOST SCORING TOPICS

Priority	Topic
1	Virtualization
2	Hypervisor
3	Utility vs Elastic Computing
4	Multitenancy
5	Mashups
6	AJAX
7	Multi-schema Approach
8	Cloud Data Stores
9	Resource Optimization
10	Load Balancing

ONE-NIGHT REVISION NOTES

Topic	Quick Revision
Virtualization	Multiple VMs on one hardware
Hypervisor	VM manager
Utility Computing	Pay-as-you-use
Elastic Computing	Auto scaling
Multitenancy	One app many users
AJAX	Partial page update
Mashup	Combined services
Multi-schema	One DB many schemas

MEMORY TRICKS

Utility vs Elastic

👉 “UB-ES”

- U = Usage Billing
 - E = Elastic Scaling
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AJAX Components

👉 “JXHC”

- J = JavaScript
 - X = XML
 - H = HTML
 - C = CSS
-

Virtualization Flow

👉 “HVM”

- H = Hardware
 - V = Virtualization Layer
 - M = Machines
-



TOPPER ANSWER WRITING TIPS

For 7 Marks

Write in this order:

Definition

↓

Need

↓

Working

↓

Diagram

↓

Advantages

↓

Applications

↓

Conclusion

For 14 Marks

Write:

Introduction



Definition



Architecture / Types



Working Steps



Diagram



Comparison Table



Advantages



Disadvantages



Applications



Conclusion



FINAL EXAM PREDICTION FOR

UNIT-02



MOST EXPECTED LONG QUESTION



Explain virtualization technology with applications in enterprises.



MOST EXPECTED COMPARISON QUESTION



Differentiate between utility computing and elastic computing.



MOST EXPECTED THEORY QUESTION

- ★ Explain multitenant software and multi-schema approach.
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MOST EXPECTED SHORT NOTES

- ★ AJAX
- ★ Mashups
- ★ Hypervisor
- ★ Cloud Middleware
- ★ Resource Optimization