

RGPV Cloud Computing — UNIT 5 PYQ ANALYSIS (2022–2025)

I analyzed the uploaded PYQ and important-question files related to Unit–5 of Cloud Computing.

UNIT–5 MAIN TOPICS

Unit–5 mainly contains:

- Issues in Cloud Computing
- QoS (Quality of Service)
- Load Balancing
- Cloud Middleware
- Mobile Cloud Computing
- Inter Cloud Issues
- Grid of Clouds
- Sky Computing
- Resource Optimization
- Dynamic Reconfiguration
- Monitoring in Cloud
- Performance Evaluation
- Streaming in Cloud
- Data Migration

MOST IMPORTANT OBSERVATION

Unit–5 is a **FULL THEORY + CONCEPT + APPLICATION UNIT**.

RGPV mostly asks:

- ✓ Definitions + architecture
- ✓ Advantages/disadvantages
- ✓ Comparison questions
- ✓ Real-world cloud management concepts
- ✓ Performance-related concepts

This unit is HIGHLY SCORING because:

- ✓ diagrams easy hain
- ✓ concepts interconnected hain
- ✓ long answers easily fill hote hain
- ✓ examples likhna easy hai



TOPIC WEIGHTAGE ANALYSIS

Topic	Frequency	Importance
Load Balancing	★★★★★	Very High
QoS Issues	★★★★★	Very High
Mobile Cloud Computing	★★★★★	Very High
Cloud Middleware	★★★★	High
Inter Cloud Issues	★★★★	High
Resource Optimization	★★★★	High
Monitoring in Cloud	★★★★	High
Dynamic Reconfiguration	★★★	Medium
Sky Computing	★★★	Medium
Grid of Clouds	★★★	Medium

Source:



MOST REPEATED TOPICS

1. Load Balancing →

Repeated in:

- PYQs
- Important questions
- Long answer list

Source:

Questions Asked

- Explain load balancing in cloud
- Types of load balancing
- Dynamic vs static load balancing
- Advantages of load balancing

MOST EXPECTED

Explain load balancing with working, types, advantages and applications.

2. QoS Issues in Cloud →

Very highly repeated.

Source:

Questions Asked

- Define QoS
- Explain QoS parameters
- Explain QoS challenges/issues

MOST EXPECTED

Explain Quality of Service (QoS) issues in cloud computing.

3. Mobile Cloud Computing →



Frequently asked application-based topic.

Source:

Questions Asked

- Explain mobile cloud computing
 - Architecture of mobile cloud
 - Advantages and challenges
-

4. Cloud Middleware →

Repeated many times.

Source:

Questions Asked

- Explain cloud middleware
 - Functions of middleware
 - Middleware architecture
-

5. Monitoring in Cloud →

High probability topic.

Source:

Questions Asked

- Explain cloud monitoring
 - Monitoring architecture
 - Importance of monitoring
-

6. Resource Optimization →

Source:

Questions Asked

- Explain resource optimization
 - Resource management techniques
 - Cost optimization
-

7. Inter Cloud Issues →

Source:

Questions Asked

- Explain inter cloud issues
 - Multi-cloud challenges
 - Vendor lock-in
-

8. Dynamic Reconfiguration →

Medium-high probability.

Source:

Questions Asked

- Explain dynamic reconfiguration
 - Auto scaling in cloud
-

9. Sky Computing & Grid of Clouds →



Source:

Questions Asked

- Define sky computing
- Explain grid of clouds

- Difference between inter cloud and sky computing
-

MOST IMPORTANT 14-MARK QUESTIONS

1. Explain issues in cloud computing in detail.
2. Explain QoS issues and QoS parameters in cloud.
3. Explain load balancing with types and diagram.
4. Explain cloud middleware with architecture and applications.
5. Explain mobile cloud computing with architecture.
6. Explain inter cloud issues and challenges.
7. Explain resource optimization techniques.
8. Explain monitoring in cloud computing.
9. Explain dynamic resource reconfiguration.
10. Explain sky computing and grid of clouds.

Source:

MOST IMPORTANT 7-MARK QUESTIONS

1. Define QoS in cloud.
2. Explain QoS parameters.
3. Explain static and dynamic load balancing.
4. Define cloud middleware.
5. Explain mobile cloud computing.
6. Explain inter cloud issues.
7. Explain resource optimization.
8. Explain cloud monitoring.
9. Explain data migration.

10. Define sky computing.
11. Explain dynamic reconfiguration.
12. Explain streaming in cloud.

Source:

VERY HIGH PROBABILITY **QUESTIONS FOR NEXT EXAM**

 **MOST EXPECTED**

1. Load Balancing

Why?

Repeated in almost every important-question set.

2. QoS Issues

Why?

Core topic of Unit-5.

3. Mobile Cloud Computing

Why?

Modern application-based question.

4. Monitoring in Cloud

Why?

Frequently repeated in PYQs.

5. Cloud Middleware

Why?

Important architecture-based question.

HIGH CHANCE QUESTIONS

- Resource Optimization
 - Inter Cloud Issues
 - Dynamic Reconfiguration
 - Data Migration
-


MEDIUM CHANCE QUESTIONS

- Sky Computing
 - Grid of Clouds
 - Streaming in Cloud
 - Performance Evaluation
-

IMPORTANT COMPARISON

QUESTIONS

These are very important for RGPV:

Comparison	Importance
Static vs Dynamic Load Balancing	

Comparison	Importance
Grid of Clouds vs Sky Computing	★★★★★
Monitoring vs Performance Evaluation	★★★★★
Resource Optimization vs Load Balancing	★★★★★
Mobile Cloud vs Traditional Mobile Computing	★★★★★

Source:



EXAMINER'S FAVORITE KEYWORDS

Underline these in exam:

- QoS
- SLA
- Availability
- Reliability
- Scalability
- Load Balancer
- Middleware
- Auto Scaling
- Resource Optimization
- Interoperability
- Vendor Lock-in
- Dynamic Reconfiguration
- Monitoring
- Throughput



ONE-NIGHT REVISION NOTES

QoS

→ Service quality

Load Balancing

→ Workload distribution

Middleware

→ Bridge software

Monitoring

→ Cloud observation

Mobile Cloud

→ Mobile + cloud

Inter Cloud

→ Multiple clouds connected

Sky Computing

→ Cloud over clouds

Grid of Clouds

→ Multiple clouds sharing resources

Dynamic Reconfiguration

→ Auto-adjust resources

Resource Optimization

→ Best resource usage

Streaming

→ Continuous data delivery

 **MEMORY TRICKS**

QoS

QoS = Quality of Service

Load Balancer

Load Balancer = Traffic Police

Middleware

Middleware = Middle Bridge

Monitoring

Monitoring = CCTV of Cloud

Sky Computing

Sky Computing = Clouds ke upar cloud



SAFE PREPARATION ORDER

If VERY less time:

MUST STUDY

1. QoS Issues
2. Load Balancing
3. Mobile Cloud Computing
4. Cloud Middleware
5. Monitoring in Cloud

These topics alone can score very good marks.



TOPPER ANSWER WRITING FORMAT

For every long answer:

Definition

Introduction

Diagram

Working

Advantages

Disadvantages

Applications

Conclusion

DIAGRAMS YOU MUST PRACTICE

- ✓ Load Balancer Architecture
- ✓ Mobile Cloud Architecture
- ✓ Cloud Middleware Architecture
- ✓ Monitoring System Flow
- ✓ Dynamic Reconfiguration Flow
- ✓ Inter Cloud Diagram

Even simple diagrams increase marks significantly.



FINAL EXAM PREDICTION

MOST EXPECTED LONG QUESTIONS

1. QoS Issues in Cloud
2. Load Balancing
3. Mobile Cloud Computing
4. Cloud Middleware
5. Monitoring in Cloud
6. Resource Optimization

These are the safest and highest-scoring topics for Unit-5.