

# **Cloud Computing (CS-802 B)**

## **Unit–01 PYQ Analysis (2022–2025)**

### **Unit–01 Topics Covered**

- Introduction to Cloud Computing
  - Characteristics of Cloud Computing
  - Service Oriented Architecture (SOA)
  - Web Services
  - SOAP, WSDL, UDDI
  - RESTful Services
  - SaaS & PaaS
  - Hypervisor
  - Virtualization Basics
  - Cloud Monitoring
  - Organizational Cloud Scenarios
  - Benefits & Limitations of Cloud Computing
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## **RGPV JUNE 2025 PAPER ANALYSIS**

### **Questions Related to Unit–01**

#### **7-Mark Questions**

**1. Explain the basic architecture of web services in cloud computing.**

 **VERY HIGH PROBABILITY**

➔ Direct Unit-1 question.

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**2. Discuss the role of SOAP, WSDL and UDDI in web services.**

 MOST IMPORTANT THEORY QUESTION

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**3. What is virtualization technology? How is it used in cloud environments?**

 VERY IMPORTANT

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## **RGPV DECEMBER 2024 PAPER**

### **ANALYSIS**

#### **Questions Related to Unit-01**

##### **7-Mark Questions**

**1. What is cloud computing service oriented architecture? Explain.**

 VERY HIGH PROBABILITY

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**2. Explain Hypervisor.**

 MOST REPEATED TOPIC


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**3. Explain WSDL.**

 Frequently repeated short note.

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**4. Why is there need of cloud mashups in cloud computing?**

 Medium probability.

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## 5. Explain VMware and VSphere machine imaging.

★ Virtualization-based question.

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## RGPV MAY 2024 PAPER ANALYSIS



### Questions Related to Unit-01

#### ★ 14-Mark Questions

#### 1. Draw layered diagram to relate construction of IaaS, PaaS and SaaS.



MOST IMPORTANT LONG QUESTION

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#### ★ 7-Mark Questions

#### 2. Briefly list representative cloud service offerings at each cloud layer.



Important cloud services question.

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#### 3. What virtualization support is needed to achieve fast cloning of VMs?

★ Hypervisor/Virtualization concept.

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#### 4. What are hardware virtualization techniques? What are benefits of virtualization?



HIGHLY EXPECTED

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## RGPV MAY 2023 PAPER ANALYSIS

## Questions Related to Unit–01

### 7-Mark Questions

**1. Define Cloud Computing. Explain Characteristics of Cloud Computing.**

 VERY HIGH PROBABILITY

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**2. What are the elements of UDDI? Explain in detail.**

 MOST REPEATED WEB SERVICE QUESTION


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**3. Discuss different types of Hypervisors with examples.**

 MOST IMPORTANT

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**4. Discuss cloud Mashups with User Interface.**

 Medium probability.

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**5. Write short note on:**

- WSDL
- Cloud middleware
- Sky computing

 Frequently repeated short notes.

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## **RGPV MAY 2022 PAPER ANALYSIS**

## Questions Related to Unit–01

★ 7-Mark Questions

**1. Describe the characteristics of cloud computing environment.**

🔥 VERY HIGH PROBABILITY

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**2. Define Cloud Computing and explain essential characteristics.**

🔥 MOST REPEATED QUESTION

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**3. What do you understand by Service Oriented Architecture (SOA)? How it support cloud computing?**

🔥 HIGHLY IMPORTANT

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**4. What are the fundamental components introduced in cloud reference model?**

★ Medium-high probability.

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**5. What is the need of virtualization architecture of hyper-V and discuss its use in cloud computing?**

🔥 Important virtualization question.

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**6. Explain virtualization hypervisor management software.**

★ Important short note.

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# **MOST REPEATED QUESTIONS (2022–2025)**

Topic	Repetition
Cloud Computing Characteristics	★★★★★★
SOA	★★★★★★
SOAP, WSDL, UDDI	★★★★★★
Hypervisor	★★★★★★
Virtualization	★★★★★★
SaaS / PaaS / IaaS	★★★★★
Web Service Architecture	★★★★★
WSDL	★★★★★
Cloud Monitoring	★★★★
Cloud Mashups	★★★★
Cloud Middleware	★★★★

## **PYQ-BASED EXPECTED QUESTIONS**

### **VERY HIGH PROBABILITY QUESTIONS**

#### **Most Expected 7-Mark Questions**

1. Define Cloud Computing and explain characteristics.
2. Explain SOA architecture.
3. Explain SOAP, WSDL and UDDI.
4. Explain Hypervisor with types.
5. Explain virtualization in cloud computing.

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## **HIGH PROBABILITY QUESTIONS**

1. Explain SaaS, PaaS and IaaS.
  2. Explain web service architecture.
  3. Explain RESTful services.
  4. Explain cloud monitoring system.
  5. Explain hardware virtualization techniques.
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## **MEDIUM PROBABILITY QUESTIONS**

1. Explain cloud middleware.
  2. Explain cloud mashups.
  3. Explain Hyper-V architecture.
  4. Explain sky computing.
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## **UNIT-01 EXAM TREND ANALYSIS**

### **RGPV Mostly Focuses On:**

- Basics of cloud computing
  - Characteristics of cloud computing
  - SOA and web services
  - SOAP-WSDL-UDDI architecture
  - Hypervisor and virtualization
  - Cloud service models
  - Cloud monitoring and management
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## **MOST SCORING TOPICS**

## If Time is Very Less → Prepare These First

Priority	Topic
1	Cloud Computing Characteristics
2	SOA
3	SOAP-WSDL-UDDI
4	Hypervisor
5	Virtualization
6	SaaS/PaaS/IaaS
7	RESTful Services
8	Web Service Architecture
9	Cloud Monitoring
10	Cloud Middleware

## ONE-NIGHT REVISION NOTES

Topic	Quick Revision
SOA	Service-based architecture
SOAP	XML messaging protocol
WSDL	Web service description
UDDI	Service registry
SaaS	Software over internet
PaaS	Platform for development
Hypervisor	VM manager
Virtualization	Multiple VMs on same hardware
REST	Lightweight web service

## MEMORY TRICKS

## SOAP Structure

👉 “EHBF”

- E = Envelope
  - H = Header
  - B = Body
  - F = Fault
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## REST Methods

👉 “GPUD”

- G = GET
  - P = POST
  - U = PUT
  - D = DELETE
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## Cloud Service Models

👉 “SPI”

- S = SaaS
  - P = PaaS
  - I = IaaS
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# TOPPER ANSWER WRITING TIPS

## For 7 Marks

Always write:

Definition

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Architecture / Components

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Working

↓

Diagram

↓

Advantages

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Applications

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Conclusion

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## **For 14 Marks**

Write:

Introduction

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Definition

↓

Detailed Explanation

↓

Architecture Diagram

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Working Steps

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Advantages

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Disadvantages

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Applications

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Conclusion

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# **FINAL PREDICTION FOR NEXT**

## **EXAM**

### **MOST EXPECTED LONG QUESTION**

★ “Explain SOAP, WSDL and UDDI with architecture.”

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### **MOST EXPECTED THEORY QUESTION**

★ “Explain Hypervisor and virtualization in cloud computing.”

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### **MOST EXPECTED COMPARISON QUESTION**

★ “Differentiate SaaS, PaaS and IaaS.”

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### **MOST EXPECTED SHORT NOTES**

- ★ WSDL
- ★ RESTful Services
- ★ Cloud Middleware
- ★ Hyper-V
- ★ Cloud Monitoring