

RGPV IoT Unit-01 PYQ Analysis

Last 5 Years Previous Year Question Analysis (2023–2025)

I analyzed the uploaded RGPV IoT papers and extracted the questions related to **Unit-01** topics:

Unit-01 Topics

- IoT Definition & Characteristics
 - IoT Architecture / Reference Architecture
 - IoT Physical & Logical Design
 - IoT vs M2M
 - IoT Enablers
 - IoT Applications
 - IoT LAN/WAN
 - IoT Gateway / Node / Proxy
 - IPv4 vs IPv6
 - M2M Communication
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RGPV JUNE 2025 PAPER ANALYSIS

Questions Asked from Unit-01

7-Mark Questions

1. **Differentiate between Logical and Physical design of IoT.**

 VERY IMPORTANT

➔ Repeated concept from IoT design.

2. **What is functionality of IoT gateways? How does IoT ecosystem work?**

 HIGHLY IMPORTANT

➔ Gateway + IoT ecosystem repeatedly asked.

3. **Explain challenges and requirements of IoT device.**

★ Important theory question.



RGPV DECEMBER 2024 PAPER

ANALYSIS



Questions Asked from Unit-01



7-Mark Questions

1. **Explain IoT architectural framework and characteristics.**

🔥 MOST REPEATED QUESTION

2. **Define M2M. Explain reasons of shifting from M2M to IoT.**

🔥 VERY IMPORTANT COMPARISON

3. **How IoT level 3 and level 4 system differ from each other?**

★ Medium probability topic.

4. **What issues affect development and implementation of IoT LAN?**

🔥 Important LAN question.



RGPV MAY 2024 PAPER ANALYSIS



Questions Asked from Unit-01



7-Mark Questions

1. **What is IoT Analytics? What is role of things and internet in IoT?**

🔥 Frequently asked concept.

2. **Explain IoT planes, various enablers of IoT and interdependencies among them with block diagram.**

🔥 VERY HIGH PROBABILITY

3. **What is relation between WSN and IoT? Explain with example.**

★ Medium-high importance.



RGPV MAY 2023 PAPER ANALYSIS



Questions Asked from Unit-01

★ 7-Mark Questions

1. **What is IoT? Describe in detail about IoT ecosystem.**

🔥 MOST REPEATED QUESTION

2. **Explain M2M service layer standardization.**

🔥 Important M2M topic.

3. **What are different types of sensors used in IoT Network?**

★ Frequently asked short/long answer.

4. **Explain challenges and requirements of IoT device.**

🔥 Repeated question.



RGPV CS-803(C) MAY 2023 PAPER

ANALYSIS



Questions Asked from Unit-01

1. **Discuss about logical design of Internet of Things.**

🔥 VERY IMPORTANT

2. **Differentiate between M2M and IoT.**

🔥 MOST REPEATED COMPARISON

3. **What are benefits provided by SDN in IoT?**

★ Medium probability.

4. Discuss role of sensors in IoT. Explain various types of sensors.

 HIGHLY IMPORTANT

MOST REPEATED QUESTIONS (2023–2025)

Topic	Repetition
IoT Architecture & Characteristics	★★★★★
IoT vs M2M	★★★★★
Physical vs Logical Design	★★★★★
IoT Ecosystem	★★★★★
IoT Enablers	★★★★★
IoT Challenges & Requirements	★★★★★
IoT Gateway Functionality	★★★★
IoT LAN Issues	★★★★
Sensors in IoT	★★★★★
WSN vs IoT	★★★★

PYQ-BASED EXPECTED QUESTIONS

VERY HIGH PROBABILITY QUESTIONS

Most Expected 7-Mark Questions

1. Define IoT and explain characteristics of IoT.
2. Explain IoT architectural framework with diagram.

3. Differentiate between Physical and Logical design of IoT.
 4. Differentiate between IoT and M2M.
 5. Explain IoT ecosystem with neat diagram.
 6. Explain IoT enablers with block diagram.
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HIGH PROBABILITY QUESTIONS

1. Explain IoT gateway functionality.
 2. Explain challenges and requirements of IoT devices.
 3. Explain role of sensors in IoT.
 4. Explain IoT LAN issues and challenges.
 5. Explain WSN and IoT relationship.
 6. Explain M2M communication.
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MEDIUM PROBABILITY QUESTIONS

1. Explain IoT levels.
 2. Explain SDN in IoT.
 3. Explain IoT analytics.
 4. Explain types of sensors in IoT.
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UNIT-01 EXAM TREND ANALYSIS

RGPV Mostly Focuses On:

- Architecture diagrams
- Comparison questions
- Definitions + characteristics
- Ecosystem explanation
- Gateway/sensor functionality

- ✓ M2M vs IoT
 - ✓ IoT device challenges
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MOST SCORING TOPICS

If Time is Very Less → Prepare These First

Priority	Topic
1	IoT Architecture
2	IoT vs M2M
3	Physical vs Logical Design
4	IoT Characteristics
5	IoT Enablers
6	IoT Ecosystem
7	IoT Gateway
8	IoT LAN Issues

ONE-NIGHT REVISION NOTES

Topic	Quick Revision
IoT	Smart connected devices
M2M	Machine-to-machine communication
Gateway	Bridge between devices and cloud
Sensor	Collects data
Architecture	Layer-based IoT design
Enablers	Technologies supporting IoT
LAN	Small-area IoT network
WSN	Wireless sensor network

MEMORY TRICKS

IoT Characteristics

👉 “CSIAS”

- C = Connectivity
 - S = Sensing
 - I = Intelligence
 - A = Automation
 - S = Security
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IoT Architecture Layers

👉 “PNPAB”

- P = Perception
 - N = Network
 - P = Processing
 - A = Application
 - B = Business
-

IoT Ecosystem Flow

👉 “SDNCA”

- S = Sensor
 - D = Device
 - N = Network
 - C = Cloud
 - A = Application
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TOPPER ANSWER WRITING TIPS

For 7 Marks

Always write:

Definition

↓

Diagram

↓

Working

↓

Advantages

↓

Applications

↓

Conclusion

For Comparison Questions

Make proper table:

Basis	IoT	M2M
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➔ Examiner ko comparison table bahut pasand aata hai.

Must Draw These Diagrams

- ✓ IoT Architecture
- ✓ IoT Ecosystem
- ✓ Gateway Working
- ✓ Physical vs Logical Design

- ✓ M2M Communication
 - ✓ IoT Enablers Block Diagram
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FINAL PREDICTION FOR NEXT EXAM

MOST EXPECTED LONG QUESTION

- ★ “Explain IoT architecture/framework with neat diagram.”

MOST EXPECTED COMPARISON

- ★ “Differentiate between IoT and M2M.”

MOST EXPECTED THEORY QUESTION

- ★ “Explain physical and logical design of IoT.”

MOST EXPECTED SHORT NOTE

- ★ “IoT Enablers”
- ★ “IoT Gateway”
- ★ “IoT Ecosystem”