

RGPV IoT Unit–05 PYQ Analysis

Last 3 Years Previous Year Question

Analysis (2023–2025)

Unit–05 Topics Covered

- IoT Platforms
 - Arduino
 - Raspberry Pi Board
 - Other IoT Platforms
 - Cloud for IoT
 - Data Analytics for IoT
 - Cloud Storage Models
 - Communication APIs
 - IoT Case Studies
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RGPV JUNE 2025 PAPER ANALYSIS

Questions Asked from Unit–05

7-Mark Questions

1. Explain Arduino board with neat diagram.


 VERY HIGH PROBABILITY

➔ Most repeated hardware question.

2. Explain cloud computing for IoT.

 VERY IMPORTANT THEORY QUESTION

3. Explain IoT communication APIs.

 Frequently asked short note.



RGPV DECEMBER 2024 PAPER

ANALYSIS

 **Questions Asked from Unit-05**

 **14-Mark Question**

1. Differentiate between Arduino and Raspberry Pi.

 MOST IMPORTANT COMPARISON QUESTION

 **7-Mark Questions**

2. Explain data analytics for IoT.

 HIGHLY IMPORTANT

3. Explain IoT platforms.

 Repeated concept.



RGPV MAY 2024 PAPER ANALYSIS

 **Questions Asked from Unit-05**

★ 7-Mark Questions

1. Explain Raspberry Pi board architecture.

🔥 VERY HIGH PROBABILITY

2. Explain cloud storage models.

🔥 Important theoretical question.

3. Explain smart home IoT case study.

★ Frequently repeated case study.



RGPV MAY 2023 PAPER ANALYSIS



Questions Asked from Unit-05

★ 14-Mark Question

1. Explain cloud for IoT with applications.

🔥 MOST EXPECTED LONG QUESTION

★ 7-Mark Questions

2. Explain APIs used in IoT.

🔥 Important short note.

3. Explain smart agriculture IoT system.

★ High probability case study.



RGPV CS-803(C) MAY 2023 PAPER

ANALYSIS

✓ Questions Asked from Unit-05

★ 7-Mark Questions

1. Explain ThingSpeak and Blynk IoT platforms.

★ Medium-high probability.

2. Explain IoT data analytics process.

🔥 Frequently repeated.

3. Explain public, private and hybrid cloud.

🔥 Important cloud question.

🔥 MOST REPEATED QUESTIONS (2023–2025)

Topic	Repetition
Arduino	★★★★★
Raspberry Pi	★★★★★
Cloud for IoT	★★★★★
Data Analytics	★★★★
IoT Platforms	★★★★

Topic	Repetition
APIs in IoT	★★★★
Cloud Storage Models	★★★★
IoT Case Studies	★★★
Arduino vs Raspberry Pi	★★★★★
Other IoT Platforms	★★★

PYQ-BASED EXPECTED QUESTIONS

VERY HIGH PROBABILITY QUESTIONS

Most Expected 7-Mark Questions

1. Explain Arduino board with diagram.
 2. Explain Raspberry Pi board.
 3. Explain cloud for IoT.
 4. Explain IoT platforms.
 5. Differentiate between Arduino and Raspberry Pi.
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HIGH PROBABILITY QUESTIONS

1. Explain data analytics for IoT.
 2. Explain cloud storage models.
 3. Explain APIs in IoT.
 4. Explain smart home IoT case study.
 5. Explain smart agriculture IoT system.
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MEDIUM PROBABILITY QUESTIONS

1. Explain ESP8266 / ESP32.
 2. Explain ThingSpeak IoT platform.
 3. Explain Blynk IoT platform.
 4. Explain hybrid cloud.
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UNIT-05 EXAM TREND ANALYSIS

RGPV Mostly Focuses On:

- ✓ Arduino architecture and features
 - ✓ Raspberry Pi comparison
 - ✓ Cloud IoT concepts
 - ✓ IoT data analytics
 - ✓ APIs and cloud communication
 - ✓ Real-life IoT case studies
 - ✓ Public/private/hybrid cloud
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MOST SCORING TOPICS

If Time is Very Less → Prepare These First

Priority	Topic
1	Arduino
2	Raspberry Pi
3	Cloud for IoT
4	Arduino vs Raspberry Pi
5	Data Analytics

Priority	Topic
6	IoT Platforms
7	APIs
8	Storage Models
9	Smart Home Case Study
10	Smart Agriculture Case Study

ONE-NIGHT REVISION NOTES

Topic	Quick Revision
Arduino	Microcontroller board
Raspberry Pi	Single-board computer
Cloud	Online storage + processing
Analytics	Data processing and prediction
API	Communication bridge
Public Cloud	Shared cloud
Private Cloud	Organization cloud
Hybrid Cloud	Combination cloud
ThingSpeak	IoT analytics platform
Blynk	Mobile IoT control platform

MEMORY TRICKS

Cloud Storage Models

 “PPHC”

- P = Public
- P = Private
- H = Hybrid
- C = Community

Analytics Types

👉 “DDPP”

- D = Descriptive
- D = Diagnostic
- P = Predictive
- P = Prescriptive

IoT Platform Features

👉 “CDAS”

- C = Connectivity
- D = Device Management
- A = Analytics
- S = Security



TOPPER ANSWER WRITING TIPS

For 7 Marks

Always write:

Definition

↓

Architecture / Components

↓

Working

↓

Diagram

↓

Advantages



Applications



Conclusion

For Comparison Questions

Make proper comparison table:

Basis	Arduino	Raspberry Pi
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➔ Comparison tables increase presentation quality and marks.

Must Draw These Diagrams

- ✓ Arduino Board Diagram
 - ✓ Raspberry Pi Architecture
 - ✓ Cloud IoT Architecture
 - ✓ API Communication Flow
 - ✓ Smart Home Architecture
 - ✓ Smart Agriculture System
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FINAL PREDICTION FOR NEXT

EXAM

MOST EXPECTED LONG QUESTION

★ “Explain cloud for IoT with architecture and applications.”

MOST EXPECTED COMPARISON QUESTION

★ “Differentiate between Arduino and Raspberry Pi.”

MOST EXPECTED THEORY QUESTION

★ “Explain data analytics for IoT.”

MOST EXPECTED SHORT NOTES

★ “ThingSpeak”

★ “Blynk”

★ “REST API”

★ “Hybrid Cloud”