

RGPV Project Management – Unit 02

Last 5 Years PYQ Analysis (PERT, CPM, Critical Path, Float)

Below is the analyzed pattern of RGPV previous year papers for **Unit-2**.

These questions are based on:

- repeated university patterns
 - RGPV-style long questions
 - commonly repeated numericals
 - important theory topics
 - highly expected exam questions
-

RGPV MAY/JUNE 2025

Questions Asked / Repeated

1. Explain PERT with suitable example.
 2. Differentiate between PERT and CPM.
 3. Explain critical path calculation.
 4. Explain float and its importance.
 5. Write short note on resource leveling.
 6. Explain crashing of activities.
-

RGPV MAY/JUNE 2024

Questions Asked / Repeated

1. Explain CPM with network diagram.
 2. Define critical path and explain critical activities.
 3. Explain total float and free float.
 4. Explain precedence relationship with examples.
 5. Explain project scheduling techniques.
 6. Explain cost reduction by crashing.
-



RGPV MAY/JUNE 2023

Questions Asked / Repeated

1. Explain PERT and CPM in detail.
 2. Compare PERT and CPM.
 3. Explain project scheduling process.
 4. Explain resource scheduling and resource leveling.
 5. Explain PERT/Cost.
 6. Calculate float from given network diagram.
-



RGPV MAY/JUNE 2022

Questions Asked / Repeated

1. Define PERT and explain expected time calculation.
 2. Explain CPM with advantages and disadvantages.
 3. Explain critical path method with example.
 4. Explain crashing procedure.
 5. Explain scheduling and cost control.
 6. Explain activity dependency relationships.
-

★ Questions Asked / Repeated

1. Explain project scheduling.
2. Differentiate between PERT and CPM.
3. Explain float calculation with example.
4. Explain project cost control using PERT/Cost.
5. Explain resource allocation and leveling.
6. Explain critical path with network diagram.

🔥 MOST REPEATED QUESTIONS (VERY IMPORTANT)

These are the MOST repeated questions in last 5 years.

Topic	Repetition Level
PERT	★★★★★
CPM	★★★★★
Difference between PERT & CPM	★★★★★
Critical Path	★★★★★
Float Calculation	★★★★
Crashing	★★★★
Resource Leveling	★★★
PERT/Cost	★★★
Precedence Relationship	★★★

VERY HIGH PROBABILITY QUESTIONS

MOST EXPECTED LONG QUESTIONS

1. Explain PERT with suitable example and diagram.
 2. Explain CPM and critical path calculation.
 3. Differentiate between PERT and CPM.
 4. Explain float calculation and types of float.
 5. Explain crashing of activities with advantages and disadvantages.
-

HIGH PROBABILITY QUESTIONS

1. Explain resource leveling.
 2. Explain precedence relationship.
 3. Explain project scheduling process.
 4. Explain PERT/Cost.
 5. Explain resource scheduling.
-

MEDIUM PROBABILITY QUESTIONS

1. Explain total float and free float.
 2. Explain project cost control.
 3. Explain network diagram construction.
 4. Explain dependency relationships in scheduling.
-

MOST IMPORTANT NUMERICALS

Highly Expected Numericals

1. Expected Time in PERT

$$T_e = \frac{T_o + 4T_m + T_p}{6}$$

2. Float Calculation

$$\text{Float} = LS - ES = LF - EF$$

3. Crash Cost Slope

$$\text{Crash Cost Slope} = \frac{\text{Crash Cost} - \text{Normal Cost}}{\text{Normal Time} - \text{Crash Time}}$$



PYQ TREND ANALYSIS

What RGPV Mostly Focuses On

Theory + Numerical Combination

RGPV mostly asks:

- theory of PERT/CPM
 - numerical of float/critical path
 - comparison table
 - advantages-disadvantages
 - network diagrams
-

Common Exam Pattern

Question Type	Weightage
Definitions	Medium
Comparison	High
Numericals	Very High
Diagrams	Very High
Advantages/Applications	Medium

ONE-NIGHT EXAM STRATEGY

If You Have Only 2–3 Hours

First Priority

- ✓ PERT
 - ✓ CPM
 - ✓ Difference between PERT and CPM
 - ✓ Critical Path
-

Second Priority

- ✓ Float Calculation
 - ✓ Crashing
-

Third Priority

- ✓ Resource Leveling
 - ✓ PERT/Cost
 - ✓ Precedence Relationship
-



MEMORY TRICKS

PERT

👉 “PERT = Probability”

(uncertain time)

CPM

👉 “CPM = Critical Path Management”

(fixed time)

Float

👉 “Float = Free Time”

(extra delay allowed)

Critical Path

👉 “Longest Path = Critical Path”

Crashing

👉 “Crash = Fast Finish with Extra Cost”



TOPPER EXAM WRITING TIPS

To Score Maximum Marks

Always Include:

- ✓ Definition
 - ✓ Formula
 - ✓ Diagram
 - ✓ Example
 - ✓ Advantages
 - ✓ Conclusion
-

Draw These Diagrams जरूर

1. PERT Network Diagram
 2. CPM Network Diagram
 3. Critical Path Diagram
 4. Float Calculation Diagram
 5. Crashing Flowchart
-

Underline These Keywords

- Critical Path
 - Float
 - PERT
 - CPM
 - Resource Leveling
 - Crash Cost
 - Network Diagram
 - Scheduling
 - Cost Control
-

 **FINAL EXAM PREDICTION**

MOST EXPECTED 14-MARK QUESTION

★ “Explain PERT and CPM with suitable examples and differences.”

MOST EXPECTED NUMERICAL

★ Float Calculation

★ Critical Path Identification

★ PERT Expected Time Calculation



FINAL PRIORITY ORDER FOR EXAM

Study in this order:

1. PERT
2. CPM
3. Difference between PERT and CPM
4. Critical Path
5. Float Calculation
6. Crashing
7. Resource Leveling
8. PERT/Cost
9. Precedence Relationship