EduTap

PFRDA Grade A Quantitative Aptitude

Previous Year Paper

Phase 1

2022-2025

#beexamready

Preface

Dear Students,

We are pleased to present this recollected question paper with answer keys for the **PFRDA Grade A Quantitative Aptitude** subject, covering the past four years **from 2022 to 2025(Exam held 2 times)**. This document has been meticulously prepared to serve as a valuable resource for candidates preparing for the PFRDA Grade A Phase 1 Exam.

By practising questions that have been actually asked in the examination, aspirants can gain clarity on the **exam pattern, difficulty level, and types of questions** likely to appear in the upcoming exam.

We wish you all the best in your exam preparation journey and hope that this document serves as a valuable asset in strengthening your performance and confidence.

Disclaimer: While every effort has been made to ensure the accuracy and relevance of the questions and answer keys, minor variations in question wording or options may exist due to the memory-based nature of this compilation. Candidates are advised to use this document as a reference tool to enhance their comprehensive understanding of the syllabus and overall exam readiness for the PFRDA Grade A examination.

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PFRDA Grade A 2022 Phase 1 Quantitative Aptitude Recollected Questions

Quantitative Aptitude

Directions (1-4): In each of the following questions, two equations are given. You have to solve both the equations to find the relation between x and y.

Q.1) I) $x^2 - 32x + 240 = 0$
II) $y^2 + 8y + 15 = 0$

A. x < y
B. x > y
C. x ≤ y
D. x ≥ y
E. Relationship between x and y cannot be determined

Q.2) I) $x^2 + 19x + 78 = 0$
II) $y^2 + 4y – 117 = 0$

A. x < y
B. x > y
C. x ≤ y
D. x ≥ y
E. Relationship between x and y cannot be determined

Q.3) I) $4x^2 – 13x + 9 = 0$
II) $4y^2 + 13y + 3 = 0$

A. x < y
B. x > y
C. x ≤ y
D. x ≥ y
E. Relationship between x and y cannot be determined

Q.4) I) $x^2 + 9x + 20 = 0$
II) $y^2 + 13y + 42 = 0$

A. x > y
B. x ≥ y
C. x = y or relationship can’t be determined.
D. x < y
E. x ≤ y

Directions (05-07): Find out the wrong number in the following number series.

Q.5) 7, 35, 245, 2135, 24255, 315315

A. 245
B. 2135
C. 24255
D. 7
E. 35

Q.6) 103, 126, 157, 198, 245, 309
A. 126
B. 198
C. 245
D. 309
E. 103

Q.7) 18, 99, 423, 504, 587, 909
A. 504
B. 587
C. 423
D. 909
E. 18

Q.8) Mano and Varthan started a business with an investment of Rs.3200 and Rs.4800 respectively. Mano invested for 40% of the year and Varthan invested for remaining time. In what ratio, Mano and Varthan received profit after one year of partnership?
A.3:5
B.5:6
C.2:5
D.1: 3
E. None of these

Q.9) Two trains A and B of length 130 and 70 m respectively running in same direction cross each other in 80 seconds. If the speed of the fastest train A is 47 kmph, find the distance covered by train B in 150 minutes.
A.57 km
B.90 km
C.75 km
D.85 km
E.95 km

Q.10) Vessel A contains 60 liters mixture of milk and water in the ratio of 3:2. If 20 liters of mixture is taken out, then find the ratio of the milk and water in the final solution?
A.3:2
B.2:1
C.4:3
D.5:4
E.1:1

Q.11) 5 years ago, the ratio of ages A and B is 5:6 and 2 years hence, the ratio of the ages of A and B is 6:7. If the average of the present ages of A, B and C is 40 years, what is C's age after 7 years?

A.30 years
B.33 years
C.40 years
.43 years
E.50 years

Q.12) The ratio of the speed of the boat in still water to speed of stream on Thursday is 4:3. If the boat travels 140km along with the current in 4 hours and it will come back in?

A.22 hours
B.25 hours
C.26 hours
D.28 hours
E. None of these

Directions (13-17): Read the following information carefully and answer the questions.
The given table chart shows the average number of pen drives sold in Shops A and B in four different years namely 2016, 2017, 2018 and 2019 and also given the average number of pen drives sold in Shop B and Shop C in these years and also given the total number of pen drives sold in Shop A.

Year	Average number of pen drives sold in Shop A and Shop B	Average number of pen drives sold in Shop B and Shop C	Total number of pen drives sold in Shop A
2016	440	379	442
2017	300	235	316
2018	400	430	300
2019	350	250	480

Q.13) If the number of pen drives sold in 2020 in Shop A is 6/5th of the number of pen drives sold in 2019 in Shop A, then find the ratio of the number of pen drives sold in 2020 in Shop A to the number of pen drives sold in 2018 in Shop C?

A. 1:1
B. 3:2
C. 8:5
D. 4:3
E. None of these

Q.14) Out of the total number of pen drives sold in 2018 and 2019 in Shop B, 42% and 85% of the pen drives are HP pen drives. Find the difference between the number of HP pen drives sold in Shop B in 2018 and 2019?
A. 23
B. 15
C. 20
D. 28
E. None of these

Q.15) If the total number of pen drives sold in 2020 in all the three shops is 64 more than the total number of pen drives sold in 2017 in all the three shops and the number of pen drives sold in 2020 in Shop A and B is 280 and 264, then find the number of pen drives sold in 2020 in Shop C?
A. 325
B. 284
C. 350
D. 306
E. None of these

Q.16) If the average number of pen drives sold in 2016 in Shop C and Shop D is 402, then find the number of pen drives sold in 2016 in Shop D?
A. 505
B. 484
C. 444
D. 400
E. None of these

Q.17) The number of pen drives sold in 2016 in Shop B is what percentage of the number of pen drives sold in 2018 in Shop A?
A. 146%
B. 120%
100%
D. 160%
E. None of these

Q.18) There are two friends Amit and Mishra each having particular number of gold coins. Amit said to Mishra that if you give 20 gold coins, mine will be twice as yours. For that Mishra replied if you give 90 coins, mine will be six times as yours. What is the number of gold coins Mishra having?
A.100 coins
B.120 coins
C.110 coins
D.80 coins
E.90 coins

Q.19) The ratio of the monthly salaries of Ram and Kalai is 2:3. The ratio of expenditures of Ram and Kalai is 3:4. After spending on expenditure, if Kalai gives 25% of her savings to Ram, both of them have same amount in hand. If the difference between their savings is 5000, find the difference between their salaries.

A.5000
B.15000
C.10000
D.8000
E.12000

Q.20) Worker A alone can complete 40% work in 8 hours and time taken by worker B alone to complete 50% work is equal to that taken by worker A alone to complete 75% work. If ratio of B's efficiency to C's efficiency is 1: 2, then in what time A and C together will complete the work?

A. 9 6/7 hours
B. 8 4 /74 hours
C. Can't be determined
D. 6 5/7 hours
E. 7 3/7 hours

PFRDA Grade A 2022 Phase 1 Quantitative Aptitude Recollected Questions Answer Key

Answer Key

Question	Answer	Question	Answer	Question	Answer
1	B	2	E	3	B
4	A	5	B	6	D
7	B	8	E	9	E
10	A	11	C	12	D
13	C	14	A	15	D
16	B	17	A	18	E
19	C	20	B		

PFRDA Grade A 2025 Phase 1 Quantitative Aptitude Recollected Questions

Quantitative Aptitude

Direction (1-5) Two equations (I) and (II) are given below. You have to solve both the equations and give answer.

Q1. (I) $x^2 - 13x + 36 = 0$
(II) $y^2 - 15y + 54 = 0$
A. $x \leq y$
B. $x \geq y$
C. $y > x$
D. x = y or relationship cannot be established
E. $x > y$

Q2. I. $x^2 + 19x + 90 = 0$
II. $3y - 16 = 8y + 24$
A. $x > y$
B. $x < y$
C. $x \geq y$
D. x = y or no relation can be established between x and y
E. $x \leq y$

Q3. I. $6x^2 - 17x + 12 = 0$
II. $15y^2 - 17y + 4 = 0$
A. $x \geq y$
B. x = y or no relation can be established between x and y
C. $x < y$
D. $x > y$
E. $x \leq y$

Q4. I: $x^2 - 29x + 210 = 0$
II: $y^2 - 27y + 182 = 0$
A. $x > y$
B. $x < y$
C. $x \geq y$
D. $x \leq y$
E. x = y or no relation can be established between x and y

Q5. I: $x^2 - 4x - 117 = 0$
II: $y^2 + 3y - 180 = 0$
A. $x > y$
B. $x < y$
C. $x \geq y$
D. $x \leq y$
E. x = y or no relation can be established between x and y

Q6. A train travelling with speed 12 m/s crosses another train moving in opposite direction with 10.8 km/hr more speed in 9 seconds. If both the trains will be moving in same direction, then in how much time will one train cross the another?

A. 81 seconds
B. 72 seconds
C. 90 seconds
D. 25 seconds
E. 84 seconds

Q7. Sakshi, Deepak, and Niharika jointly started a business. It was agreed that Sakshi would invest Rs. 70200, Deepak invested Rs. 90720 and Niharika invested Rs. 108000. Sakshi wants to be a working partner and for that he received 5% of the total profit and rest is distributed among them. If the ratio of time period of Sakshi, Deepak, and Niharika is 6: 5: 3 and total profit earned by them was Rs. 266400, then what is the share of Niharika?

A. Rs. 84000
B. Rs. 77000
C. Rs. 36000
D. Rs. 48000
E. Rs. 68400

Q8. After 6 years, the ratio of ages of U and V will be 6:5 respectively and present age of U is

$\frac{23}{23}$

of present age of W. The age of W one year hence is twice the present age of V. What is the age of W after 3 years?

A. 30 years
B. 24 years
C. 20 years
D. 27 years
E. 36 years

Q9. Rishabh invested money in a scheme which claims to provide 18% per annum simple interest but it actually provides 10% per annum compound interest. If the difference between Rishabh's actual and expected interest after 2 years is Rs 2100, what was the money Rishabh invested?

A. Rs 12,500
B. Rs 13,000
C. Rs 14,000
D. Rs 14,500
E. Rs 15,000

Q10. If length and breadth of a rectangle is in the ratio of 8: 7, and its perimeter is equal to circumference of a circle whose radius is approximately 104 cm, then what are the area of the rectangle?

A. 27104 cm^2
B. 27992 cm^2
C. 28972 cm^2
D. 27228 cm^2
E. 28114 cm^2

Q11. The average monthly sales of washing powder by Reema for first 11 months is Rs 5000, but due to illness she was unable to work much in the last month. If the average sales for the whole year is Rs 4875. How much sales of washing powder she did in the last month?

A. Rs 3500
B. Rs 3000
C. Rs 2500
D. Rs 2000
E. Rs 4000

Q12. L, M, N working alone can do a work in 4, 8, 12 days respectively. If they work at an alternate day, on first day L works alone, on 2nd day M and N works together and so on. In how many days work will be completed?

A. 133133 days
B. 143143 days
C. 233233 days
D. 203203 days
E. 17 3 17 3 days

Directions (13-15): Answer the questions based on the information given below.
There were two job positions L and M. The ratio of the number of candidates who applied for position L to that for M was 10:9 respectively. 40% of the students were shortlisted to appear for the tests for each position. 840 students were selected for position L. 15% of the candidates who applied for position M were selected for position M. The number of candidates selected for position L was 30 more than that for position M. The average number of candidates who joined both the positions was 513. 80% of the candidates selected for position M joined.

Q13. What is the difference between the average number of candidates who were not shortlisted for the test for each position and the total number of candidates who did not clear the test for both the positions?

A. 650
B. 3930
C. 510
D. 1965
E. 985

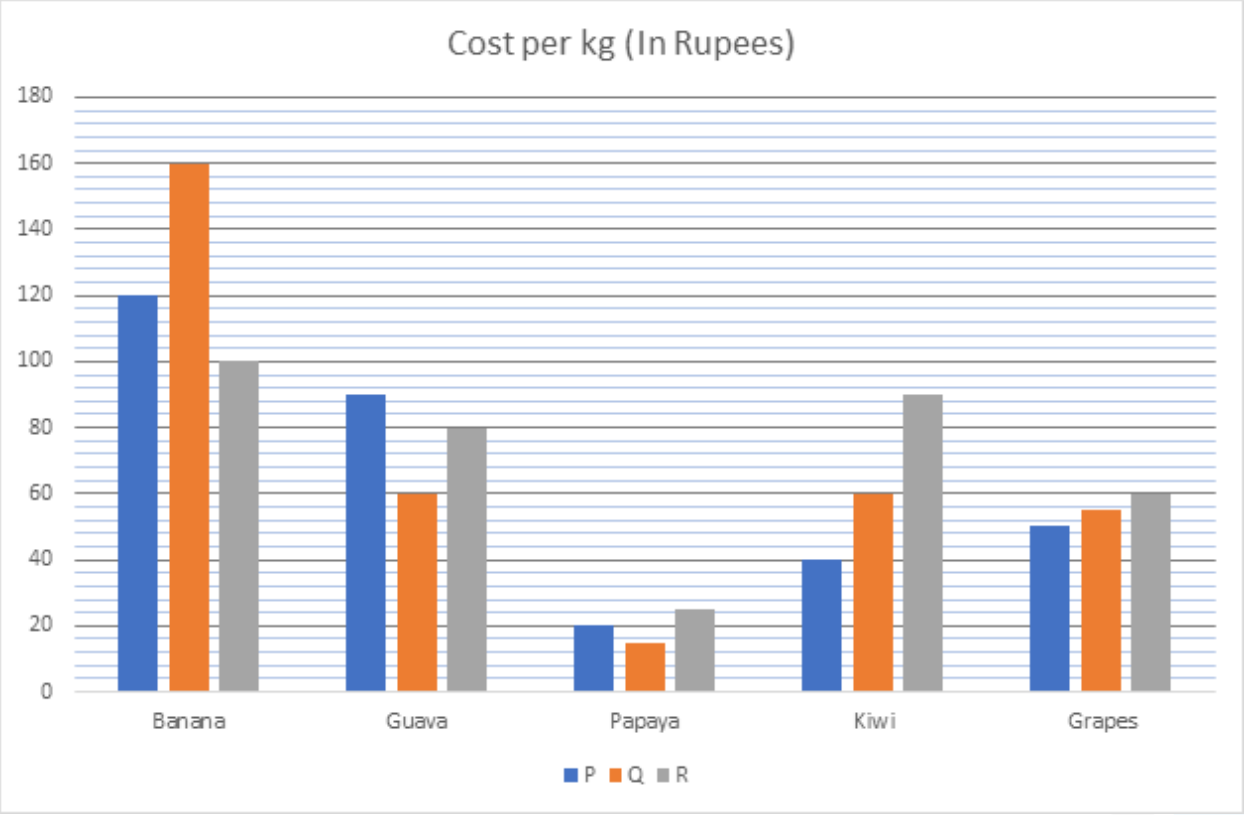
Q14. What percentage of the total number of candidates who applied for position A joined?

A. 16.5%
B. 12.33%
C. 13.53%
D. 6.3%
E. 8.23%

Q15. What is the ratio of the number of candidates who were selected but did not join for position L to the number of candidates who joined position M respectively?

A. 77:108
B. 11:13
C. 7:12
D. 66:97
E. 42:59

Directions (16-20): Following graph shows costs per kg of 5 different fruits at 3 different stores (P, Q and R) (In rupees).



Q16. Average per kg price of Kiwi in all 3 shops together is what percent of the average per kg price of Banana in all 3 shops together?

A. 80%
B. 50%
C. 60%
D. 75%
E. Other than above

Q17. If Karan bought 1 kg each of each type of fruit from shop Q and his friend Harish bought 2 kg of each type of fruit from shop R, then what is the ratio of total expenditures of Karan and Harish respectively?

A. 33:71
B. 35:71
C. 34:73
D. 31:73
E. Other than above

Q18. Sum of per kg prices of Banana and Kiwi together at shop R is what percent of sum of per kg prices of Banana and Kiwi together at shop P ?

A. 115.75%
B. 116 %
C. 120.5%
D. 118.75
E. Other than above

Q19. Cost per kg of Kiwi at shop R is what percent more than the average cost per kg of Kiwi at shops P and Q?

A. 75%
B. 80%
C. 72%
D. 60%
E. Other than above

Q20. Sum of prices per kg of all 5 fruits together at shop Q is what percent more than the sum of prices per kg of all 5 fruits together at shop P?

A. 9.375%
B. 8.375%
C. 5.375%
D. 4.375%
E. Other than above

PFRDA Grade A 2025 Phase 1 Quantitative Aptitude Recollected Questions Answer Key

Answer Key

Question	Answer	Question	Answer	Question	Answer
1	D	2	B	3	D
4	C	5	E	6	A
7	E	8	A	9	C
10	A	11	A	12	A
13	C	14	D	15	A
16	B	17	B	18	D
19	B	20	A		

What Next?

1. **Identify Right Source:** Follow the best study resources (books, online courses, videos, etc.) for each topic on the list. Do not follow multiple sources for the same topic but rather follow good sources multiple times.
2. **Topic Prioritization:** Review the document to identify key topics that require special attention. Prioritize your study schedule based on the significance of each topic in the syllabus. Ensure a balanced approach, allocating more time to critical subjects.
3. **Width of Syllabus:** Merely going through the syllabus is not enough; Regularly revisit the document to reassess what topics actually need to be covered.
4. **Depth of Understanding:** Recognize the varying depths at which topics should be covered. While some concepts demand a broad understanding, others require a more in-depth analysis. Tailor your study approach, accordingly, allocating more time to complex topics that demand deeper comprehension.

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We are a passionate team of experienced professionals who understand the challenges of aspirants preparing for government jobs. Our vision is to "***create a nurturing ecosystem for the aspirants so that they can feel safe, guided, and mentored***."

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At EduTap, our mission is to empower students to reach their full potential by providing comprehensive guidance, expert mentorship, and a supportive community. Since our start in 2016, we've grown into a trusted platform for aspirants, delivering exceptional results in government recruitment exams and certifications year after year.

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+91 8146207241 **hello@edutap.co.in** **edutap.in**