

IBPS RRB Clerk Mains Quantitative Aptitude 2019 Memory Based

Q1. Glass 'A' contains 400 ml sprite & glass 'B' contains 220 ml coke. $4X$ ml sprite taken out from 'A' and mixed in 'B' and then $3X$ ml mixture from 'B' taken out and poured into a vacant glass 'C'. If ratio of coke to sprite in glass C is 11 : 4, then find remaining quantity of sprite in glass 'B'?

- (a) 240 ml
- (b) 60 ml
- (c) 64 ml
- (d) 80 ml
- (e) 48 ml

Ans.(c)

Q2. Diameter of a cylinder is $\frac{2}{3}$ rd of sum of its radius & height, while ratio of curved surface area to volume of cylinder is 1 : 7. If radius and height of a cone is same as that of cylinder, then find slant height of cone?

- (a) $21\sqrt{5}$ cm
- (b) $10\sqrt{5}$ cm
- (c) $7\sqrt{5}$ cm
- (d) $14\sqrt{5}$ cm
- (e) $16\sqrt{5}$ cm

Ans.(d)

Q3. A, B & C invested their respective savings in a scheme, which offered CI at 20% p.a. for two years and received total interest of Rs. 1694. If A & C invested double of their respective saving in another scheme, which offered SI at 10% p.a. for two years and received total interest of Rs. 1100, then find difference between saving of A & C together & saving of B?

- (a) 1250 Rs.
- (b) 1650 Rs.
- (c) 1150 Rs.
- (d) 1050 Rs.
- (e) 750 Rs.

Ans.(b)

Q4. Cost price of a jeans is Rs. 200 more than cost price of a shirt. If shirt is sold at 20% loss and jeans is sold at 25% profit, then shopkeeper gets a total profit of $5\frac{5}{7}\%$ on selling a shirt and a jeans. Find the overall profit or loss (in %) of shopkeeper, if shirt is sold at 25% profit and jeans is sold at 20% loss?

- (a) $\frac{5}{7}\%$
- (b) $\frac{4}{7}\%$
- (c) $\frac{3}{7}\%$
- (d) $\frac{2}{7}\%$
- (e) $\frac{6}{7}\%$



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Ans.(a)

Q5. A bag contains 12 balls (Red & blue). Two balls are taken out randomly from the bag and probability of one ball being red and one ball being blue is $\frac{35}{66}$. If 'n' blue balls added in bag and then two balls are taken out randomly from bag, then minimum probability of remaining blue balls in bag is $\frac{9}{14}$, find 'n'? (blue balls are more than red balls in the bag initially).

- (a) 1
- (b) 2
- (c) 4
- (d) 6
- (e) 8

Ans.(c)

Q6. The unoccupied capacity of Air India is what percent of total passengers to Ooty?

Read the given information carefully and answer the following questions carefully.

There are 3 flight operators Air India, Indigo and Go Air offering services to two destinations from Delhi to Goa and Ooty. A total of 800 passengers travelled on these routes on a particular day of which 60% travelled to Ooty. Indigo because of its lowest fare always travel to its full capacity. All planes have 180 seating capacity each. Air India and Go Air issued same number of boarding passes. Passengers travelled to Ooty from Air India and Go Air are in ratio of 8 : 7.

- (a) $29\frac{1}{6}\%$
- (b) $30\frac{1}{6}\%$
- (c) $70\frac{5}{6}\%$
- (d) $45\frac{5}{6}\%$
- (e) $63\frac{7}{11}\%$

Ans.(a)

Q7. What is the average number of passengers travelled to Ooty from Air India and Indigo?

Read the given information carefully and answer the following questions carefully.

There are 3 flight operators Air India, Indigo and Go Air offering services to two destinations from Delhi to Goa and Ooty. A total of 800 passengers travelled on these routes on a particular day of which 60% travelled to Ooty. Indigo because of its lowest fare always travel to its full capacity. All planes have 180 seating capacity each. Air India and Go Air issued same number of boarding passes. Passengers travelled to Ooty from Air India and Go Air are in ratio of 8 : 7.

- (a) 240
- (b) 140
- (c) 170
- (d) 160
- (e) 180

Ans.(c)

Q8. Which flight has maximum unoccupied seats?

Read the given information carefully and answer the following questions carefully.

There are 3 flight operators Air India, Indigo and Go Air offering services to two destinations from Delhi to Goa and Ooty. A total of 800 passengers travelled on these routes on a particular day of which 60% travelled to Ooty. Indigo because of its lowest fare always travel to its full capacity. All planes have 180 seating capacity each. Air India and Go Air issued same number of boarding passes. Passengers travelled to Ooty from Air India and Go Air are in ratio of 8 : 7.

- (a) Indigo
- (b) Air India
- (c) Go Air
- (d) Air India and Go Air both
- (e) All have same no. of unoccupied seats

Ans.(d)

Q9. What is the ratio of passengers travelled to Ooty from Air India and Go Air together to the passengers travelled to Goa using Indigo and Go Air together?

Read the given information carefully and answer the following questions carefully.

There are 3 flight operators Air India, Indigo and Go Air offering services to two destinations from Delhi to Goa and Ooty. A total of 800 passengers travelled on these routes on a particular day of which 60% travelled to Ooty. Indigo because of its lowest fare always travel to its full capacity. All planes have 180 seating capacity each. Air India and Go Air issued same number of boarding passes. Passengers travelled to Ooty from Air India and Go Air are in ratio of 8 : 7.

- (a) 3 : 2
- (b) 15 : 13
- (c) 17 : 13
- (d) 15 : 7
- (e) 1 : 1

Ans.(b)

Q10. Passengers travelling to Goa using Indigo are what percent more or less than passengers travelling to Ooty using Go Air? (approx.)

Read the given information carefully and answer the following questions carefully.

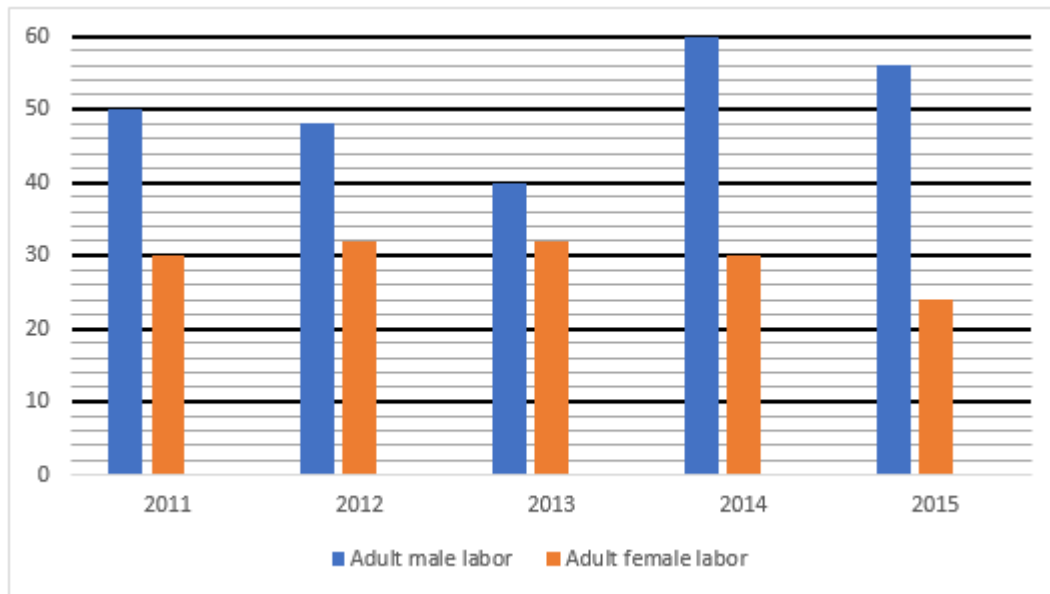
There are 3 flight operators Air India, Indigo and Go Air offering services to two destinations from Delhi to Goa and Ooty. A total of 800 passengers travelled on these routes on a particular day of which 60% travelled to Ooty. Indigo because of its lowest fare always travel to its full capacity. All planes have 180 seating capacity each. Air India and Go Air issued same number of boarding passes. Passengers travelled to Ooty from Air India and Go Air are in ratio of 8 : 7.

- (a) 22
- (b) 64
- (c) 39
- (d) 40
- (e) 29

Ans.(e)

Directions (11-15): Bar graph given below shows percentage of labor (adult male labor & adult female labor) out of total labor working in a firm 'X' in five different years. Read the data carefully answer the questions.

Note – Total labor = (adult male labor + adult female labor + child labor)



Q11. If ratio of girls' child labor to boy's child labor working in the year 2013 is 3 : 4 and their difference is 48, then find the difference between adult male labor and adult female labor working in that year?

- (a) 84
- (b) 96
- (c) 108
- (d) 88
- (e) 72

Ans.(b)

Q12. Total labor working in 2015 are 20% more than that of total labor working in 2011, then find total adult female labor working in 2015 is what percent more than total child labors working in 2011?

- (a) 42%
- (b) 48%
- (c) 40%
- (d) 36%
- (e) 44%

Ans.(e)

Q13. If ratio of adult male labors working in 2011 to 2012 is 5 : 4 and total labors working in these two years is 2200, then find total child labors working in these two years?

- (a) 420
- (b) 480
- (c) 440
- (d) 400

(e) 520

Ans.(c)

Q14. A child NGO inspection team in 2014 in the city inspected firm X and imposed fine on firm of Rs. 25 for each child labor. If inspection team imposed total Rs. 2000 on the firm and total child labor working in 2015 are 220 more than that of in 2014, then find ratio of adult male labors working in 2014 and 2015 respectively?

(a) 3 : 7

(b) 4 : 9

(c) 4 : 7

(d) 4 : 5

(e) 4 : 3

Ans.(c)

Q15. If ratio of total labors working in 2011, 2012 and 2013 is 8 : 10 : 5 and total adult female workers working in these three years is 720, then find total number of child labors working in these three years?

(a) 550

(b) 450

(c) 400

(d) 300

(e) 500

Ans.(e)

Q16. Amit's present age is 75% of Binny's present age where as present age of Chintu is $\frac{5}{8}$ th of Binny's present age. If difference between difference of Chintu and Binny age and difference of Binny and Amit age is 6 years then find the average of their age two years later?

(a) 44 years

(b) 42 years

(c) 36 years

(d) 40 years

(e) 38 years

Ans.(d)

Q17. Speed of boat in still water is 37.5% less than the speed of the boat in downstream and boat covers 30 km in upstream in 5 hours, then find time taken by boat to cover 84 km in downstream?

(a) 3.5 hr

(b) 3 hr

(c) 4.5 hr

(d) 4 hr

(e) 5 hr

Ans.(a)

Q18. If we add 4 to the numerator of the fraction and increases denominator by 50% then both become equal. And when the numerator is increased by 5 and denominator is doubled then it becomes equal to the original fraction. What will be two times of that fraction?

- (a) $\frac{4}{5}$
 (b) $\frac{3}{2}$
 (c) $\frac{8}{5}$
 (d) $\frac{5}{2}$
 (e) $\frac{5}{3}$

Ans.(e)

Q19. Efficiency of A is 40% more than that of B and ratio of efficiency of C to A is 6:7. Time taken by A and C together to complete the work is 18 days. Find the number of days taken by all of them working together to complete twice of the same work?

- (a) 32 days
 (b) 24 days
 (c) 25 days
 (d) 26 days
 (e) 27.5 days

Ans.(d)

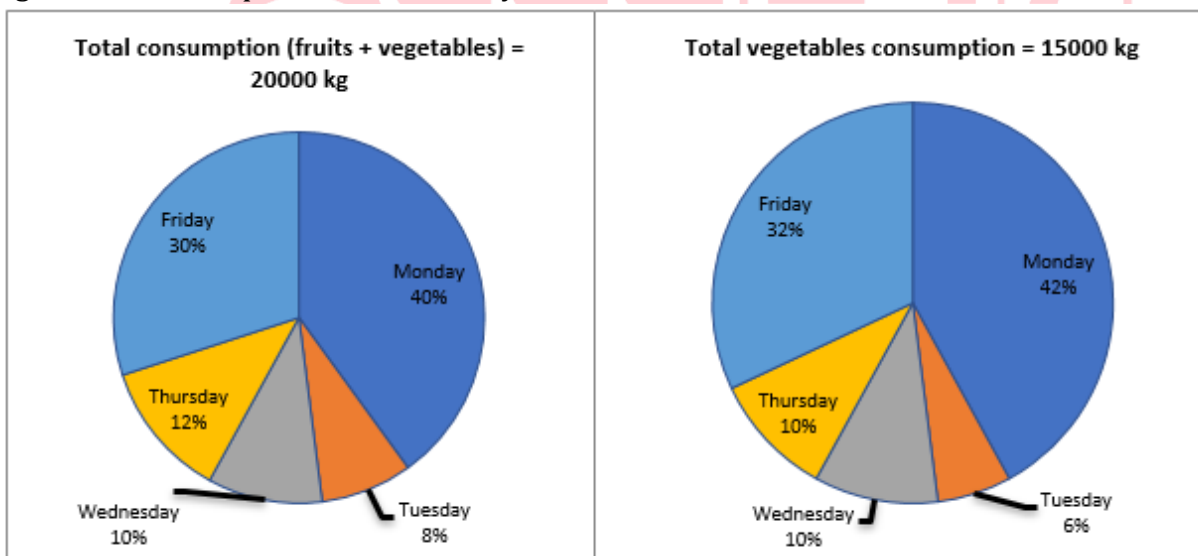
Q20. Ravi cuts a square field of maximum possible area from his circular field. Find the area of the remaining circular field if the cost of grass cutting of the square field at Rs 4 per m^2 is Rs 882?

- (a) 120 m^2
 (b) 126 m^2
 (c) 121 m^2
 (d) 116 m^2
 (e) 109 m^2

Ans.(b)

Directions (21-25): Study the pie charts given below and answer the following questions.

Pie charts shows the percentage distribution of total consumption (fruits + vegetables) on five different days of a week (Monday, Tuesday, Wednesday, Thursday and Friday) and percentage distribution of total vegetables consumption on these 5 days.



Q21. Fruits consumed on Monday and Tuesday together are what percent more or less than vegetables consumed on Wednesday and Thursday together?

- (a) 20%
- (b) 50%
- (c) 80%
- (d) 40%
- (e) 70%

Ans.(a)

Q22. If fruits consumed on Saturday are 50% more than that of consumed on Friday and ratio of fruits consumed to vegetables consumed on Saturday is 2 : 3, then find total fruits and vegetables consumed on Saturday.

- (a) 3900
- (b) 4800
- (c) 4300
- (d) 4500
- (e) 4000

Ans.(d)

Q23. Fruits consumed on Wednesday and Thursday together are what percent of total fruits and vegetables consumed on these two days together?

- (a) $34\frac{4}{11}\%$
- (b) $31\frac{9}{11}\%$
- (c) $41\frac{4}{11}\%$
- (d) $39\frac{9}{11}\%$
- (e) $43\frac{4}{11}\%$

Ans.(b)

Q24. The average of fruits consumed on Tuesday, Wednesday and Thursday are how much less than average of vegetables consumed on Monday and Friday?

- (a) 4250
- (b) 5050
- (c) 4650
- (d) 5450
- (e) 4850

Ans.(e)

Q25. Vegetables consumed on Tuesday and Friday together are how much more or less than vegetables consumed on Wednesday and Thursday together?

- (a) 2900
- (b) 2200

- (c) 2700
- (d) 2500
- (e) 1800

Ans.(c)

Q26. Find total crop production in 2015 & 2016 together.

Study the passage given below and answer the following questions.

Data gives information about total crop production in a village in 2012, 2013, 2014, 2015 & 2016. Ratio of total crop production in 2012 to that of in 2013 is 13 : 20. Total crop production in 2015 is 10% less than that of in 2016 and total crop production in 2015 is equal to average of crop production in 2012 & 2014. Total crop production in 2014 is 60% more than that of in 2013. Average crop production in all these 5 years is 4500 tonnes.

- (a) 8000 tonnes
- (b) 9500 tonnes
- (c) 9000 tonnes
- (d) 7500 tonnes
- (e) 8500 tonnes

Ans.(b)

Q27. If in 2013 village produced only three crops (wheat, rice and bajra) in the ratio 36 : 27 : 17 respectively, then find difference in production of wheat and production of bajra in the village in 2013.

Study the passage given below and answer the following questions.

Data gives information about total crop production in a village in 2012, 2013, 2014, 2015 & 2016. Ratio of total crop production in 2012 to that of in 2013 is 13 : 20. Total crop production in 2015 is 10% less than that of in 2016 and total crop production in 2015 is equal to average of crop production in 2012 & 2014. Total crop production in 2014 is 60% more than that of in 2013. Average crop production in all these 5 years is 4500 tonnes.

- (a) 850 tonnes
- (b) 1100 tonnes
- (c) 750 tonnes
- (d) 500 tonnes
- (e) 950 tonnes

Ans.(e)

Q28. If village produced only wheat and bajra in 2012 in the ratio 8 : 5 and selling price (per ton) of wheat and bajra in 2012 is Rs.625 and Rs.500 respectively, then find total revenue of village in 2012.

Study the passage given below and answer the following questions.

Data gives information about total crop production in a village in 2012, 2013, 2014, 2015 & 2016. Ratio of total crop production in 2012 to that of in 2013 is 13 : 20. Total crop production in 2015 is 10% less than that of in 2016 and total crop production in 2015 is equal to average of crop production in 2012 & 2014. Total crop production in 2014 is 60% more than that of in 2013. Average crop production in all these 5 years is 4500 tonnes.

- (a) Rs.10,00,000
- (b) Rs.25,00,000
- (c) Rs.22,00,000

(d) Rs.15,00,000

(e) Rs.18,00,000

Ans.(d)

Q29. In 2016 & 2017 village produced only wheat & rice and ratio of production of wheat to that of rice in the village in 2016 & 2017 is 16 : 9 and 4 : 3 respectively. If production of wheat in village in 2017 is 400 tonnes more than that of in 2016, then find production of rice in the village in 2017 is what percent of that of in 2016?

Study the passage given below and answer the following questions.

Data gives information about total crop production in a village in 2012, 2013, 2014, 2015 & 2016. Ratio of total crop production in 2012 to that of in 2013 is 13 : 20. Total crop production in 2015 is 10% less than that of in 2016 and total crop production in 2015 is equal to average of crop production in 2012 & 2014. Total crop production in 2014 is 60% more than that of in 2013. Average crop production in all these 5 years is 4500 tonnes.

(a) 120%

(b) 150%

(c) 160%

(d) 180%

(e) 80%

Ans.(b)

Q30. Find ratio of total crop production in the village in 2013 to that of in 2014.

Study the passage given below and answer the following questions.

Data gives information about total crop production in a village in 2012, 2013, 2014, 2015 & 2016. Ratio of total crop production in 2012 to that of in 2013 is 13 : 20. Total crop production in 2015 is 10% less than that of in 2016 and total crop production in 2015 is equal to average of crop production in 2012 & 2014. Total crop production in 2014 is 60% more than that of in 2013. Average crop production in all these 5 years is 4500 tonnes.

(a) 5 : 8

(b) 3 : 4

(c) 1 : 4

(d) 7 : 10

(e) None of the above.

Ans.(a)

Q31. Quantity I: A train can cross a pole in 24 sec with a speed of 75 km/h. Length of train.

Quantity II: A train can cross a pole in 12 sec and a tunnel in 55.2 sec. If length of tunnel is 1800 m. length of train.

In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

(a) Quantity I > Quantity II

(b) Quantity I < Quantity II

(c) Quantity I $\geq$ Quantity II

(d) Quantity I = Quantity II or no relation

(e) Quantity I $\leq$ Quantity II

Ans.(d)

Q32. Quantity I: Marked price of article, if article is marked at 50% above cost price and on selling the article, profit earned is 20% and S. P is Rs 1020.

Quantity II: Total cost of fencing a square of side 37.5 meter and cost of wire is Rs 0.17 per centimeter. In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I $\leq$ Quantity II

Ans.(b)

Q33.

Quantity I: value of x

$$(x + 3)^2 = (x - 3)^2 + x^2$$

Quantity II: value of y

$$y^2 - 29y + 204 = 0$$

In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I $\leq$ Quantity II

Ans.(e)

Q34. Quantity I: Amount obtained after two years on Rs. 2450 at $14\frac{2}{7}\%$ simple interest per annum.

Quantity II: Amount obtained after two years on investment of Rs 2450 at $12\frac{1}{2}\%$ p.a. compounded yearly.

In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I $\leq$ Quantity II

Ans.(a)

Q35. Quantity I: Actual discount percent. If a shopkeeper gives 1 article free at every purchase of 4 articles and also give 20% discount.

Quantity II: Final new profit percent. If selling price is increased by $14\frac{2}{7}\%$ then profit percent becomes $36/19$ of initial profit percent.

In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I $\leq$ Quantity II

Ans.(d)

Q36. Cost price of article A is Rs 600 more than that of B and selling price of A is Rs 1200 more than that of B. If difference between profit earned on selling these two articles is $13\frac{1}{3}\%$ of the cost price of A then find profit earned on B if profit % earned on A is $33\frac{1}{3}\%$?

- (a) Rs 800
- (b) Rs 900
- (c) Rs 840
- (d) Rs 960
- (e) Rs 1000

Ans.(b)

Q37. In 100 lit mixture of milk and water, milk is 68 lit more than that of water. When 'a' lit of milk is taken out and (a+15) lit of water is added, milk becomes 50% more than that of water. Find value of 'a'?

- (a) 20
- (b) 15
- (c) 18
- (d) 12
- (e) 16

Ans.(b)

Q38. Investment of Sumit is 25% more than that of Maanik and that of Ravi is Rs 8000 in that business. After 8 months, Sumit and Maanik have increased their amount by 20%, 25% respectively and at the end of the year, profit share of Sumit and Ravi becomes equal then find the profit share percentage of Maanik?

- (a) $28\frac{8}{9}\%$
- (b) $28\frac{1}{3}\%$
- (c) $27\frac{4}{9}\%$
- (d) $33\frac{1}{3}\%$

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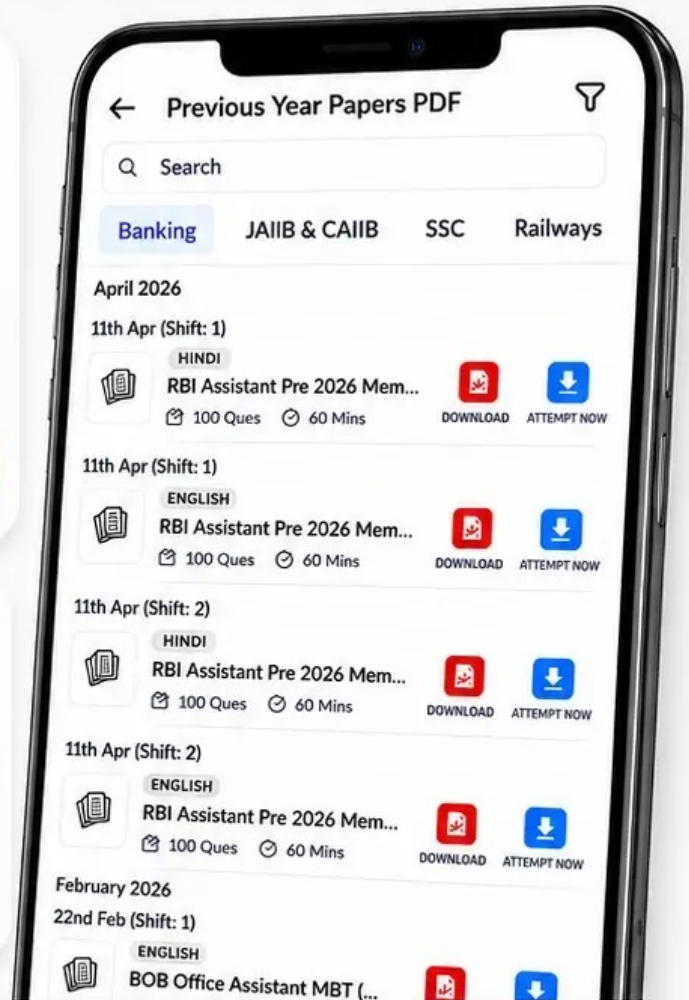
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(e) $26\frac{2}{3}\%$

Ans.(a)

Q39. Area of rectangle having length and breadth in the ratio of 4: 3 is 432 cm^2 . A square whose side is equal to diagonal of rectangle then find ratio of numerical value of perimeter to the area of square?

- (a) 7:55
- (b) 4:35
- (c) None of these
- (d) 1:8
- (e) 2:15

Ans.(e)

Q40. 180 m long Train A crosses Train B of 120 m in length which is running in opposite direction in $5\frac{5}{11}$ sec. If speed of train B is 20% more than that of train A, then find the time taken by both trains to cross each other, when they running in same direction?

- (a) 60 sec
- (b) 58 sec
- (c) 55 sec
- (d) 50sec
- (e) 65 sec

Ans.(a)

