20 YEAR-WISE

IBPS RRB PO & CLERK

Officers Scale-I and Office Assistants

PRELIMS & MAINS
PREVIOUS YEARS' SOLVED PAPERS (2024-2020)

COVERS:

- ✓ Reasoning Ability
- ✓ Quantitative Aptitude
- ✓ English Language
- ✓ Computer Knowledge
- ✓ General Awareness

FREE ONLINE

- ✓ 10 Online Mock Tests
- ✓ Monthly Current Affairs Magazine (QR Code)

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10 ONLINE CBT TESTS for RRB PO and CLERK

MONTHLY CURRENT AFFAIRS MAGAZINE

Paper 1

IBPS RRB PO MAINS SOLVED PAPER 2024

REASONING ABILITY

1. In the question given below, a statement is followed by two conclusions I and II. Read the statement carefully and decide which of the given conclusions logically follow(s).
Statement: A multinational company has decided to allow employees to work from home permanently. The management stated that this would save infrastructure costs and increase employee satisfaction.
Conclusions:
I. Permanent work from home policies reduce infrastructure costs for companies.
II. All employees are more productive when working from home.
(*a*) Only I follows (*b*) Only II follows
(*c*) Both I and II follow (*d*) Neither I nor II follows
(*e*) None of these

2. **Statement:** The education department announced that from next year, all school exams will be conducted digitally to promote transparency, reduce paperwork, and standardize the evaluation process.
What can be concluded from the statement?
(*a*) Digital exams will completely eliminate the need for teachers.
(*b*) Students will now cheat less in online exams.
(*c*) The department wants a more efficient and uniform assessment system.
(*d*) Online exams are easier than traditional exams.
(*e*) None of these

3. In the questions given below, a statement is followed by two assumptions I and II. An assumptions is something supposed or taken for granted. You have to consider the following assumptions and decide which of the assumption(s) is implicit in the statement.
Statement: "To encourage digital transactions and reduce dependency on cash, the government has launched a cashback scheme for users who make payments using UPI."
Assumptions:
I. People are more likely to use digital transactions if they receive monetary incentives.
II. Cash-based transactions are less desirable from the government's perspective.
(*a*) Only I is implicit (*b*) Only II is implicit
(*c*) Both I and II are implicit (*d*) Neither I nor II is implicit
(*e*) Either I or II is implicit

Directions (4-6): Study the following information carefully and answer the questions given below.

There are nine members in a family of three generations. No single person in the family is a parent. M is sister of P. N is son of R, who is sister-in-law of Q. F is mother of Q. T is nephew of S. U is father-in-law of P. U is in the 1st generation. P is not a female member. S is not sibling of M.

4. Which of the following statements is true?
I. M is the sister of P.
II. F is the father of Q.
III. There are three married couples in the family.
(*a*) Only I (*b*) Only III
(*c*) Both I and III (*d*) Both II and III
(*e*) Only II

5. How is U related to T?
(*a*) Father (*b*) Paternal Grandfather
(*c*) Maternal Grandfather (*d*) Father-in-law
(*e*) Cannot be determined

6. If B is the sister of U, then how many female members are there in the family?
(*a*) Five (*b*) Seven
(*c*) Six (*d*) Four
(*e*) Can't be determined

Directions (7-11): Study the following information carefully and answer the questions given below.

Nine employees - David, Emma, Felix, Grace, Hannah, Isaac, Julia, Kevin, and Liam work in a company and were born in nine different years 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, and 1999, but not necessarily in the same order. Each of them has children of nine different ages 4, 5, 6, 7, 8, 9, 10, 11, and 12.

The one who was born in 1993 has a child who is 11 years old. Julia was born in a year that is divisible by both three and four. Hannah is the oldest. Grace was born in a year that is divisible by both three and two but not by four. David was born in a prime-numbered year and not after 1995. Julia's child has the third highest age among the children. The one who has a child of 7 years of age was the second last to be born among them. Isaac is the youngest among the workers and he has a child with the second lowest age among the children. Hannah's child has the highest age among the children. Emma was born in an odd-numbered year that is divisible by three. The child who is 4 years old has a parent who was born in a prime -numbered year. Liam and Kevin were born in even-numbered years after 1993. Kevin has a 6 years old chid and he was born in the fourth highest year among them. Liam has a child with an age of the highest one-digit number.

7. Who was born in a year that is divisible by both three and four, and what is his children's age?
(*a*) Julia,11 (*b*) Hannah,12
(*c*) Hannah,8 (*d*) David,11
(*e*) Julia,10

8. What was the birth year of Julia, and how old is Julia's child?
(*a*) 1992, 11 (*b*) 1992, 10
(*c*) 1991, 11 (*d*) 1995, 4
(*e*) 1996, 8

9. The one who has a child of 7 years old, was born in which of the following year?

(*a*) Three years after 1991 (*b*) Three years after 1996

(*c*) Two years after 1996 (*d*) Two years before 1995

(*e*) Two years before 1993

10. What is the age of the child of the one who was born in the year 1994?

(*a*) 4 years (*b*) 5 years

(*c*) 6 years (*d*) 7 years

(*e*) 8 years

11. In which year was Felix born?

(*a*) Two years before 1999 (*b*) One year before 1992

(*c*) Two years after 1993 (*d*) Three years before 1998

(*e*) Five years after 1994

12. The question given below consists of two statements numbered I and II. You have to decide whether the data provided in the statements is sufficient to answer the question. Read all the statements and answer the question.

Eight persons - P, Q, R, S, T, U, V and W live in an eight-storey building, but not necessarily in the same order. The bottommost floor is numbered as 1 and the topmost floor is numbered as 8.

Who lives exactly between T and U?

Statement I: Two persons live between R and P. W lives two floors above P. Q lives just above W. As many persons live above Q as below V. U lives just above S.

Statement II: Three persons live between Q and U. V live two floors below S. S lives just below U. Four persons live between R and W, who lives adjacent to Q's floor. At least 2 persons live between T and S.

(*a*) Data given in statement I alone is sufficient to answer the question.

(*b*) Data given in statement II alone is sufficient to answer the question.

(*c*) Data given in either statement I or statement II alone is sufficient to answer the question.

(*d*) Data given in both the statement I and statement II together are sufficient to answer the question.

(*e*) Data given in both the statement I and statement II together are not sufficient to answer the question.

13. The question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Statement: Should consumers buy more expensive cold-pressed oils over cheaper refined cooking oils?

Arguments:

I. No, because cold-pressed oils are mostly produced locally, whereas refined oils are imported from other countries.

II. Yes, because cold-pressed oils are less processed and much healthier than refined cooking oils.

(*a*) Only argument I is strong (*b*) Only argument II is strong

(*c*) Either I or II is strong (*d*) Neither I nor II is strong

(*e*) Both I and II are strong

14. In the question given below, a passage/statement is followed by three statements which may or may not strengthen/weaken the assertion made in the passage. Answer the questions as per the individual direction given.

Automobile major Mahindra & Mahindra Ltd. plans to set up an electric vehicles manufacturing facility in Pune, Maharashtra. The company, through its subsidiary, will make investments of approximately Rs. 10,000 crore over a period of 7-8 years for setting up the factory. It also plans to hire the staff locally after the completion of the project.

Which of the following, if true, would strengthen the argument made in the above passage?

I. The electric vehicles market, though still in its infancy in India, is expected to grow vigorously in about a decade as conventional vehicles are phased out.

II. Maharashtra government's new industrial promotion plan has provisions for providing 5-years tax relief for companies establishing new factories.

III. While Maharashtra's literacy rate is marginally above the national average, it has a shortage of the technical workforce required in the automobile industry.

(*a*) Only I and II (*b*) Only I and III

(*c*) Only II and III (*d*) Only II

(*e*) All I, II and III

15. The question given below consists of two statements numbered I and II. You have to decide whether the data provided in the statements is sufficient to answer the question. Read all the statements and answer the question.

A few cars are parked at a certain distance from one another. What is the direction of Car K with respect to Car P?

Statement I: L is 30m north of O. N is west of L. P is 18m south of N. K is to the southwest of N.

Statement II: N is 15m west of L. O is 15m east of M. P is north of M. K is to the west of O.

(*a*) Data given in both statement I and II together are not sufficient to answer the question.

(*b*) Data given in statement II alone is sufficient to answer the question, while data given in statement I alone is not sufficient to answer the question.

(*c*) Data given in statement I alone is sufficient to answer the question, while data given in statement II alone is not sufficient to answer the question.

(*d*) Data given in both statement I and II together are necessary to answer the question.

(*e*) Data given in either statement I or statement II alone is sufficient to answer the question.

Directions (16-19): In the following questions, assuming the given statements to be true, find which among the given five conclusions is/are definitely true and then give your answer accordingly.

16. **Statements:** $A \geq F \geq M$; $P = S > R = Q < M$; $P \leq N \leq Z$

Conclusions:

I. $A > P$

II. $Z \leq Q$

III. $F \geq N$

IV. $R < A$

V. $Q < Z$

(*a*) Only IV and V (*b*) Only II and IV

(*c*) Only I, II and V (*d*) Only I and IV

(*e*) Only II, III and V

17. **Statements:** $E \geq S = R$; $M \leq K < R$; $X = V \leq P = M \geq Z$

Conclusions:

I. $E > P$

II. $K \geq X$

III. $Z < S$

IV. $R \leq V$

V. $K > E$

(*a*) Only I, IV and V (*b*) Only II and IV
(*c*) Only I, II and III (*d*) Only I and IV
(*e*) Only II, III and V

18. Statements: T ≤ R = N; P ≥ Q = M; T = S ≤ M; E ≥ V = Z ≥ N
Conclusions:
I. E > R
II. M ≥ N
III. T < P
IV. S ≤ V
V. T > P
(*a*) Only I, IV and V (*b*) Only IV
(*c*) Only I, II and V (*d*) Only I and IV
(*e*) Only II, III and V

19. Statements: S ≤ A ≤ Z < P; E > Q ≥ S; K > R ≤ S = F
Conclusions:
I. E > P
II. R ≤ Z
III. E > K
IV. P ≥ E
V. R ≤ Q
(*a*) Only I, IV and V (*b*) Only II and V
(*c*) Only I, II and V (*d*) Only I and IV
(*e*) Only II, III and V

20. If all letters of the word 'ALCHEMISTS' are arranged in reverse dictionary order from left to right end, then replace the even place letters with the second succeeding letter and the odd place letters with the opposite letter starting from the first letter from the left end, then remove all the repeated letters, then which letter is third from the right end of the new word?
(*a*) K (*b*) S
(*c*) X (*d*) H
(*e*) None of the above

Directions (21-25): The number arrangement machine when given an input line, rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 364128 718246 342147 521623 415124 423495
Step I: 364164 718236 342149 521609 415116 423425
Step II: 94164 88236 72149 71609 55116 63425
Step III: 44169 36288 24179 01679 15156 23456
Step IV: 8181 9264 6181 1681 6136 5436
Step V: 81 81 121 100 49 81 49 81 49 81 81 81
Step V is the last step of the above input. As per rules followed in the above steps, find out in each of the given questions the appropriate steps for the given input.

Input: 258212 452455 724662 268246 345617 715294

21. Which of the following number is immediate left of the third number from the right end in penultimate step?
(*a*) 4681 (*b*) 9264
(*c*) 4481 (*d*) 4264
(*e*) None of the above

22. Which of the following number is second to the left of the third lowest number in Step II?
(*a*) 92425 (*b*) 85216
(*c*) 88236 (*d*) 94604
(*e*) 75649

23. What is the sum of the digits of the second lowest number in step III?
(*a*) 21 (*b*) 23
(*c*) 22 (*d*) 31
(*e*) None of the above

24. What is the sum of the 2nd number from the left end of Step IV and the 4th number from the right end of Step V?
(*a*) 4581 (*b*) 4706
(*c*) 4562 (*d*) 4602
(*e*) None of the above

25. Which number is third to the right of the fourth number from the left end of Step V?
(*a*) 81 (*b*) 121
(*c*) 100 (*d*) 64
(*e*) None of the above

26. The question given below consists of a statement, followed by two arguments numbered I and II. You have to decide, which of the arguments is a 'strong' argument and which is a 'weak' argument. 'Strong' arguments are those which are important and directly address the statement. 'Weak' arguments are those which are of minor importance and may not be directly related to the statement or may focus on some trivial aspect of the statement.

Statement: A city proposes building a new highway to improve transportation infrastructure and reduce traffic congestion. Is this a beneficial project?

Arguments:
I. Yes, because building a new highway can improve transportation efficiency, reduce traffic congestion, and boost economic growth.
II. No, because constructing a new highway can lead to reduced use of public transportation.
(*a*) Only argument I is strong (*b*) Only argument II is strong
(*c*) Either I or II is strong (*d*) Neither I nor II is strong
(*e*) Both I and II are strong

Directions (27-29): Answer the questions based on the information given below.

Ten persons A, B, C, D, E, F, G, H, I and J sit in two parallel rows, row I and row II, such that five persons sit in each row. The persons in row II face towards the south and the persons in row I face towards the north. The persons of row I face the persons of row II and vice versa. Row II is to the north of row I. The distance between any two adjacent persons in the row is the same. Each of the persons has different bottles in which water is filled. The total water in all the bottles combined is 2.5 liter. No bottle is filled with the same level of water.

The one, who has 300 ml water in his bottle sits second from one of the extreme ends. G faces the one, who has 300 ml water in his bottle. Only one person sits between G and the one, who has half of the water of the one, who faces G. The one, who faces the one, who has 150 ml water in his bottle sits immediate right of F. F faces the one, who has 200 ml water in his bottle. A sits second to the left of the one, who has 200 ml water in his bottle. E, who has 230 ml water in his bottle sits third to the right of the one, who has 400 ml water in his bottle. H, who sits in row I sits immediate left of the one, who has 320 ml water in his bottle. D sits second to the right of the one, who has 80 ml water in his bottle. E and D sit in different rows. The average of the water in H's and G's bottle is 10 less than the water in A's bottle. B has more water than H in his bottle. B faces the one, who sits adjacent to J. The sum of water in F's and J's bottle is 420 ml. I has less water than C in his bottle.

27. Who among the following persons has 300 ml of water in his bottle?

(*a*) C (*b*) D

(*c*) J (*d*) B

(*e*) Cannot be determined

28. What is the total sum of water in H, C, and D's bottle?

(*a*) 770 ml (*b*) 870 ml

(*c*) 700 ml (*d*) 580 ml

(*e*) None of these

29. Which among the following statement(s) is/are definitely true?

Statements:

I. D sits third to the right of the one, who has 450 ml of water in his bottle.

II. The water in J and C's bottle combined is 720 ml.

III. C sits adjacent to the one, who faces the one, who has 80 ml of water in his bottle.

IV. A faces the one, who sits second to the right of F.

(*a*) Only I and II (*b*) Only II, III and IV

(*c*) Only I, II and III (*d*) Only I, III and IV

(*e*) Only II and IV

30. At a tourist destination spot flocked with many restaurants serving authentic food of the region, Mr. Bakshi, owner of "Your Kitchen" restaurant, asked his cooks at his restaurant to prepare less food every day from the coming month due to the expected bad weather, which generally results in fewer tourists visiting the spot. However, the actual number of tourists visiting the spot saw an increase of 30 percent in the next month. Now, Mr. Bakshi has decided to drop his previous plan and instead, increase the quantity of food prepared every day at his restaurant.

Which of the following statements about the tourists visiting the spot, if true, would strongly suggest that Mr. Bakshi's plan is flawed?

(*a*) A high proportion of tourists is expected to come from the nearby regions.

(*b*) Recently, some of the tourists visiting the spot regularly have grown skeptic about the quality of food served there and thus, do not go to any of the restaurants for their meals.

(*c*) A substantially lower percentage of tourists rate "Your Kitchen" as their choice among the restaurants at the tourists' spot.

(*d*) A substantially higher percentage of the tourists plan to try more than one restaurant at the tourists' spot.

(*e*) Some of the tourists who visit the spot every month are fond of the dishes not served at "Your Kitchen".

31. In the question below, two statements (I) and (II) are given. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following correctly depicts the relationship between these two statements.

I. People often desire the prestige associated with certain brands, but for many, the price tag can be a prohibitive factor.

II. High-quality replicas of branded goods are becoming increasingly popular among youngsters in country A.

(*a*) Statement I is the cause and statement II is its effect.

(*b*) Statement II is the cause and statement I is its effect.

(*c*) Both the statements I and II are independent causes.

(*d*) Both the statements I and II are effects of independent causes.

(*e*) Both the statements I and II are effects of some common cause.

32. In the word 'PERMANENT', if all the vowels are replaced by their opposite letters (as per the English alphabetical series) , then how many pairs of letters are there in the new word, which has as many letters between them (both forward and backward) in the word as in the English alphabetical series?

(*a*) Two (*b*) Three

(*c*) Four (*d*) Five

(*e*) None of the above

Directions (33-36): Read the given information carefully and answer the questions based on it:

A certain number of persons are seated in a row facing north. Some of the persons like different colours. The total number of persons in the row is four times the number of persons sitting to the right of the one who likes black. The person who likes yellow sits second to the left of B, who sits 3rd to the right of the one who likes pink. Two persons sit between C and A, who sits sixth to the right of B. The person who likes red sits exactly between D and E, who is adjacent to C. Four persons sit between F and G. C sits third from one end and two places to the left of the one who likes lime. The one who likes maroon sits second from the right end. Two persons sit between C and the one who likes red. The one who likes green sits exactly between D and G. The one who likes black sits immediate to the right of A. The one who likes grey sits third to the left of H, who sits third to the left of the one who likes lime. Neither B nor the immediate neighbour of B likes green.

33. Which colour does the person, who sits immediate left of F like?

(*a*) Green (*b*) Grey

(*c*) Lime (*d*) Maroon

(*e*) Yellow

34. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?

(*a*) E, A

(*b*) F, D

(*c*) G, the one who likes black

(*d*) C, A

(*e*) H, the one who likes grey

35. Who sits second to the left of the one who sits 3rd to the right of G?

(*a*) The person who likes yellow

(*b*) The person who likes grey

(*c*) C

(*d*) The person who likes black

(*e*) F

36. How many persons sit between C and the person who likes yellow?

(*a*) 11 (*b*) 12 (*c*) 10 (*d*) 9

(*e*) 14

Directions (37-39): Answer the questions based on the information given below:

Nine boxes A, B, C, D, E, F, G, H and I are kept one above the other. Each box contains different items among Clothes, Bottles, Books, Watches, Combs, Pens, Shoes, Pencils and Mobiles. The number of items in these boxes is different among 7, 12, 14, 18, 21, 23, 24, 27 and 30. The bottommost box is numbered 1, and the topmost box is numbered 9.

Mobiles are kept in box 4. H is three boxes above the box with 24 items. G has 14 items and is one of the four boxes above H. Third box from the top contains 2nd highest number of items. There are three boxes between G and the box with 18 items. The number of bottles is six more than the number of clothes. D is immediately below the box which contains

clothes, and neither of these boxes contains more than 23 items. There are three boxes between the box, which contains bottles and box E, which contains books.

Shoes are three boxes above B. A is immediately above F. Box, which contains pens, is immediately above I. C is three boxes above the box, which contains the lowest number of items. The box with 23 items is immediately below the box, which contains watches. The number of pencils is less than the number of combs. The number of books is not less than the number of shoes.

37. Which among the following boxes is kept between the box with 21 items and box contains pens?

(*a*) B (*b*) C

(*c*) D (*d*) Box containing shoes.

(*e*) None of these

38. What is the difference between the number of items in the topmost box and the number of watches?

(*a*) 10 (*b*) 14 (*c*) 16 (*d*) 12

(*e*) None of these

39. Which among the following boxes is not between the boxes containing the lowest and the highest number of items?

I. D

II. A

III. Box containing 14 items.

(*a*) Both I and II (*b*) Only I

(*c*) Both II and III (*d*) Only III

(*e*) Only III

40. The question given below consists of two statements numbered I and II. You have to decide whether the data provided in the statements is sufficient to answer the question. Read all the statements and give an answer:

In the given coded language, how is the word 'father' coded?

Statement I: In a certain language, 'father of the nation' is coded as 'qpr qrp pqr prq' and 'child father of man' is coded as 'rqp prq pqr rpq'.

Statement II: In a certain language, 'make our nation proud' is coded as 'rsp srp qpr prs' and 'proud father of child' is coded as 'pqr prq rpq srp'

(*a*) If the data given in statement I alone is sufficient to answer the question.

(*b*) If the data given in statement II alone is sufficient to answer the question.

(*c*) If the data given in either statement I or statement II alone is sufficient to answer the question.

(*d*) If the data given in both statement I and statement II together are sufficient to answer the question.

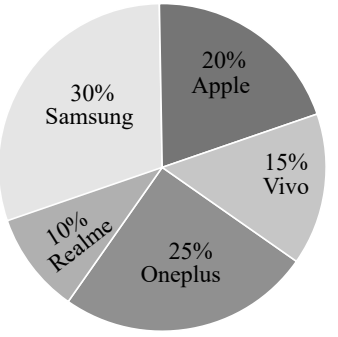
(*e*) If the data given in both statement I and statement II together are not sufficient to answer the question.

QUANTITATIVE APTITUDE

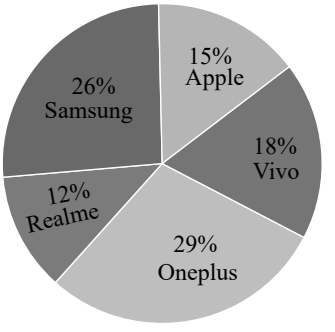
Directions (41-46): Read the following pie charts carefully and answer the questions given below.

The pie chart I shows the percentage distribution of the total number of mobiles manufactured, and the pie chart II shows the percentage distribution of the total number of mobiles sold by five different companies in 2022.

Total number of mobiles manufactured = 20000



Total number of mobiles sold = 12000



41. 75% of the total number of mobiles manufactured by Samsung are non-defective, and the rest are defective. If $\frac{2}{5}$ th of the defective mobiles manufactured by Samsung are unsold, then find the ratio of the total non- defective mobiles sold to the total non-defective mobiles unsold by Samsung.

(*a*) 37 : 38 (*b*) 38 : 39

(*c*) 37 : 39 (*d*) 38 : 35

(*e*) 33 : 37

42. Find the total number of unsold mobiles of companies Apple, Vivo and Oneplus together.

(*a*) 4560 (*b*) 3450 (*c*) 3645 (*d*) 4125

(*e*) None of these

43. The average number of mobiles manufactured by Vivo, Realme and Nokia is 2500. If the total mobiles sold by Nokia is $33\frac{1}{3}\%$ that of Apple, then find the total number of unsold mobiles by Nokia.

(*a*) 1750 (*b*) 1900 (*c*) 1400 (*d*) 1550

(*e*) 1200

44. Find the difference between the total number of mobiles sold by Realme and Samsung together and the total number of mobiles unsold by Oneplus and Apple together.

(*a*) 620 (*b*) 540 (*c*) 840 (*d*) 775

(*e*) 590

45. The total number of mobiles manufactured by X is 40% less than that by Samsung and the ratio of the unsold mobiles by X to Vivo is 11 : 7 respectively. The number of mobiles sold by X is what percentage of the number of mobiles manufactured by Oneplus ?

(*a*) 18.5% (*b*) 12.33%

(*c*) 56.2% (*d*) 32.8%

(*e*) 45.6%

46. The total number of mobiles manufactured by Apple in 2023 is increased by 37.5% compared to the previous year. If the total number of unsold mobiles by Apple in 2023 is the same as 2022, then find the percentage increase in the number of mobiles sold by Apple in 2023 compared to the previous year.

(*a*) 82.5% (*b*) 66.67% (*c*) 83.33% (*d*) 33.33%

(*e*) 12.5%

Directions (47-50): Find out the wrong number in the following number series.

47. 9, 32, 75, 144, 244, 384

(*a*) 32 (*b*) 75 (*c*) 144 (*d*) 244

(*e*) 384

48. 1141, 1465, 1565, 1549, 973, 1649

(*a*) 1141 (*b*) 1565 (*c*) 1465 (*d*) 1649

(*e*) 973

49. 64, 12, 88, 15, 110, 17.625

(*a*) 12 (*b*) 110 (*c*) 17.625 (*d*) 88

(*e*) 64

50. 42, 52, 67, 90, 121, 163

(*a*) 42 (*b*) 52 (*c*) 163 (*d*) 121

(*e*) 67

Directions (51-55): Read the following information carefully and answer the given questions.

Three friends – X, Y, and Z each purchased the same model of a laptop but at different prices. X bought the laptop for Rs. P. Y bought the same laptop at 25% more than X paid. Z bought it at 60% more than X paid. X marked the laptop at Rs. 80 more than the cost price and gave a 20% discount, still making a profit of Rs. 20.

51. What is the value of P?

(*a*) 150 (*b*) 180 (*c*) 160 (*d*) 220

(*e*) 200

52. What is the cost price of the laptop for Y?

(*a*) Rs. 180 (*b*) Rs. 275 (*c*) Rs. 240 (*d*) Rs. 200

(*e*) Rs. 250

53. If Z marked the laptop at 30% above the cost and gave a discount of Rs. 52, what is Z's selling price?

(*a*) Rs. 208 (*b*) Rs. 318.25 (*c*) Rs. 238 (*d*) Rs. 405.6

(*e*) Rs. 228.43

54. If X invests his profit in a scheme offering 10% simple interest per year for 4 years, how much interest will he earn?

(*a*) Rs. 16 (*b*) Rs. 20 (*c*) Rs. 12 (*d*) Rs. 10

(*e*) Rs. 8

55. Y and Z invest the profits they earned (Y's profit = twice Z's) in a business. If Z invested for 9 months and Y for x months and their profit share ratio is 6 : 5, then find the value of x.

(*a*) 9 (*b*) 5 (*c*) 3 (*d*) 4.5

(*e*) None of these

Directions (56-57): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as,

(*a*) Quantity I > Quantity II

(*b*) Quantity I < Quantity II

(*c*) Quantity I ≥ Quantity II

(*d*) Quantity I ≤ Quantity II

(*e*) Quantity I = Quantity II or no relation

56. The one root of equation $m^2 - 10m + 25 = 0$ is a and $\frac{a}{3} = \frac{10}{c+3}$

Quantity I: 12c

Quantity II: 84

57. The present age of A is 4 years more than the present age of B. The present age of C is twice the age of B. The average age of A, B, and C is 40 years.

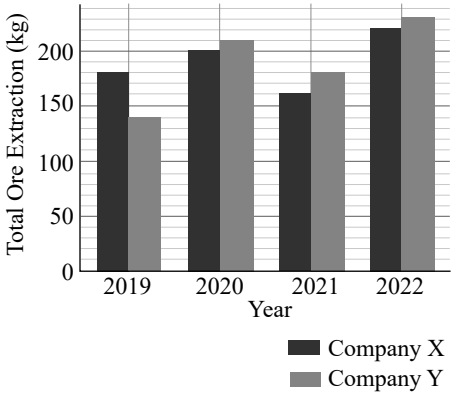
Quantity I: Present age of C

Quantity II: 2 times the present age of A

Directions (58-63): Read the following bar graph and table carefully and answer the questions given below.

The bar graph shows the total ore extraction (in kg) by companies X and Y from 2019 to 2022. Table shows the percentage of A type ore extracted by company X out of the total quantity of ore extracted by the same company. It also shows the quantity of B type ore (in kg) extracted by company Y each year.

Total ore extraction by company X and Y (2019 – 2022)



Year	Percentage of A type ore by X	Quantity of B type ore by Y (kg)
2019	50%	60
2020	60%	90
2021	55%	85
2022	70%	100

58. What is the total quantity of A type ore extracted by company X in 2020 and 2022 together?

(*a*) 274 kg (*b*) 265 kg (*c*) 250 kg (*d*) 240 kg

(*e*) None of these

59. Total A type ore extracted by company X in 2019 and 2021 is what percent of total ore extracted by company Y in 2020?

(*a*) 60% (*b*) 84.76% (*c*) 75% (*d*) 90.23%

(*e*) 100%

60. What is the difference between total ore extraction by X in 2022 and that by Y in 2021?

(*a*) 50 kg (*b*) 40 kg (*c*) 20 kg (*d*) 30 kg

(*e*) 10 kg

61. In 2023, if company Y extracted 90 kg of B type ore and that was 60% of its total extraction, what was its total ore extraction?

(*a*) 120 kg (*b*) 135 kg (*c*) 140 kg (*d*) 150 kg

(*e*) 160 kg

62. Find the total B type ore extracted by company X in 2019 and 2020.

(*a*) 150 kg (*b*) 160 kg (*c*) 170 kg (*d*) 180 kg

(*e*) None of these

167. The development of which programming language marked the beginning of the third generation of computers?

(*a*) Fortran (*b*) COBOL

(*c*) BASIC (*d*) Assembly language

(*e*) None of the above

168. Which of the following is true about Light pen?

(*a*) They are used for Computer Aided Designing (CAD) and drawing purposes

(*b*) It is connected by a wire to the computer terminal that detects the signals from the screen

(*c*) Moreover, with the help of a light pen, engineers, architects or fashion designers can draw and edit the designs directly on the screen

(*d*) It is used to read bar codes from products that are available in big departmental stores.

(*e*) All of the above

169. Subnetting is _____.

(*a*) the process of dividing a single network into multiple sub-networks

(*b*) The process of merging multiple networks into one

(*c*) the process of merging one network into another

(*d*) the process of connecting multiple signals into one

(*e*) None of the above

170. Which of the following is the physical part of a computer?

(*a*) Software (*b*) Hardware

(*c*) Operating system (*d*) System unit

(*e*) None of these

171. Which of the following is used as a primary storage device?

(*a*) Magnetic tape (*b*) PROM

(*c*) Floppy disk (*d*) None of these

(*e*) Both (*a*) and (*b*)

172. Which SQL command is used to modify the structure of an existing table?

(*a*) UPDATE (*b*) INSERT

(*c*) ALTER (*d*) MODIFY

(*e*) CHANGE

173. The two basic types of record access methods are:

(*a*) Online and real time (*b*) Sequential and indexed

(*c*) Direct and immediate (*d*) Sequential and random

(*e*) None of the above

174. Which of the following bypasses the print dialog box when printing individual slides or an entire presentation?

(*a*) File, Print Preview (*b*) The print button

(*c*) File, print (*d*) Ctrl + P

(*e*) None of these

175. Formatting a disk results in all the data being

(*a*) Saved to the disk (*b*) Copied from the disk

(*c*) Deleted from the disk (*d*) Transferred from the disk

(*e*) All of the above

176. Which character is used to separate different components in a URL?

(*a*) Backslash (\) (*b*) Forward slash (/)

(*c*) Colon (:) (*d*) Ampersand (&)

(*e*) Question mark (?)

177. Which of the following is an interpreted language meaning code can be executed without prior compilation?

(*a*) JavaScript (*b*) C

(*c*) C++ (*d*) COBOL

(*e*) None of these

178. Which command is used to undo the last action in MS Word?

(*a*) Ctrl + X (*b*) Ctrl + Z (*c*) Ctrl + C (*d*) Ctrl + V

(*e*) Ctrl + A

179. Which of the following is the correct order of increasing size?

(*a*) bit, nibble, byte, kilobyte, megabyte

(*b*) bit, byte, nibble, kilobyte, megabyte

(*c*) bit, nibble, byte, megabyte, kilobyte

(*d*) byte, bit, nibble, megabyte, kilobyte

(*e*) None of the above

180. Which formula is used to calculate the net present value (NPV) of cash flows in Excel?

(*a*) PV (*b*) FV (*c*) NPV (*d*) IRR

(*e*) PMT

181. What happens if you press Ctrl + Shift + F8?

(*a*) It activates extended selection

(*b*) It activates the rectangular selection

(*c*) It selects the paragraph on which the insertion line is.

(*d*) Insert picture

(*e*) None of the above

182. Multi-user systems provide cost savings for small businesses because they use a single processing unit to link several

(*a*) Personal computers (*b*) Dumb terminals

(*c*) Workstations (*d*) Mainframes

(*e*) None of the above

183. Which of the following is a non-relational database?

(*a*) MySQL (*b*) PostgreSQL

(*c*) Oracle (*d*) MongoDB

(*e*) SQLite

184. Which of the following actions is most likely to introduce a virus to your computer?

(*a*) Visiting a trusted website and downloading a software update

(*b*) Inserting a USB drive infected with malware

(*c*) Creating a strong password for your online accounts

(*d*) Using a secure and encrypted Wi-Fi network

(*e*) Regularly clearing browser cache and cookies

185. Which of the following is the first supercomputer developed in India?

(*a*) SAHASRA T (*b*) SAGA 220

(*c*) PARAM YUVA II (*d*) PARAM 8000

(*e*) None of these

186. The arrangement of elements such as Title and Subtitle text, pictures, tables etc. is called

(*a*) Layout (*b*) Presentation

(*c*) Design (*d*) Scheme

(*e*) None of these

187. What year was the World Wide Web (WWW) invented?

(*a*) 1985 (*b*) 1989 (*c*) 1993 (*d*) 1996

(*e*) 2001

EXPLANATION

1. (*a*) Conclusion I is directly supported by the statement — the policy aims at saving infrastructure costs.

Conclusion II is not stated or implied. Productivity varies and is not generalized in the statement.

So, only conclusion I follows.

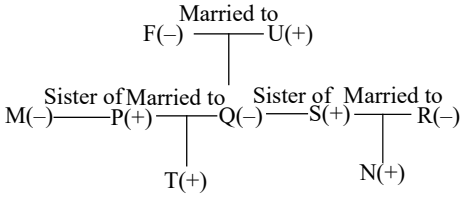
2. (*c*) The statement emphasizes transparency, less paperwork, and standardization, all pointing to a more efficient and uniform system.

3. (*c*) Assumption I is implicit because cashback incentives aim to motivate people toward digital transactions.

Assumption II is implicit as the purpose is to reduce dependence on cash, showing it's less desirable.

So, both I and II are implicit.

Solutions (4-6):



4. (*c*) Statement I: M is the sister of P – True
Statement II: F is the father of Q. – False
Statement III: There are three married couples in the family. – True

5. (*c*) U is maternal grandfather of T.

6. (*a*) There are five female members in the family.

Solutions (7-11):

Year	Employee	Age of Children
1991	Hannah	12
1992	Julia	10
1993	David	11
1994	Kevin	6
1995	Emma	8
1996	Liam	9
1997	Felix	4
1998	Grace	7
1999	Isaac	5

7. (*e*) The year that is divisible by both three and four is 1992. Julia was born in that year and he has a child of 10 years old.

8. (*b*) Julia was born in the year 1992, and he has a child of 10 years old.

9. (*c*) The one who has a child of 7 years old, was born in 1998, that was two years after 1996.

10. (*c*) The age of the child of the one who was born in the year 1994 is 6 years.

11. (*a*) The Felix was born in 1997, that was two year before 1999.

12. (*c*) From statement I alone, we get:

Floor	Person
8	Q
7	W
6	T
5	P
4	U
3	S
2	R
1	V

P lives exactly between T and U.
So, data given in the statement I alone is sufficient to answer the given question.
From statement II alone, we get:

Floor	Person
8	Q
7	W
6	T
5	P
4	U
3	S
2	R
1	V

P lives exactly between T and U.

So, data given in the statement II alone is sufficient to answer the given question.

So, data given in either statement I or statement II alone is sufficient to answer the given question.

13. (*b*) The statement asks whether consumers should prefer cold-pressed oils over refined cooking oils. II is a strong argument, as it explains that cold-pressed oils are much healthier than their refined counterparts.

14. (*a*) The passage tells us how the company plans to establish an electric vehicles plan in Maharashtra over the next 7-8 years.

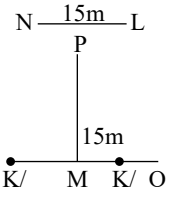
I will strengthen the company's argument as it tells us how the electric vehicle market will expand over the next ten years.

II will also strengthen the company's argument as it tells us how the company will benefit from Maharashtra's 5-years tax relief.

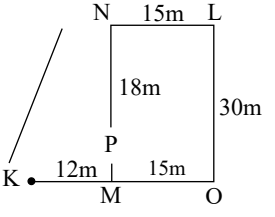
III tells us how there is a talent shortage in Maharashtra, and will weaken the company's argument about hiring workers for its Pune plant locally.

15. (*d*) From statement I alone, we cannot determine the position of Car K with respect to Car P.

From statement II:



From statement II alone, we cannot determine the position of Car K with respect to Car P.
Combining statement I and II, we get:



From statement I and II together, we get Car K is in the southwest of Car P.
Therefore, data given in both statements I and II together are necessary to answer the question.

16. (*a*) On combining, we get,

$A \geq F \geq M > Q = R < S = P \leq N \leq Z$

Conclusions:

I. A > P: False (As, $A \geq F \geq M > Q = R < S = P$, so, the relation between A and P cannot be determined)

II. $Z \leq Q$: False (As, $Q = R < S = P \leq N \leq Z$, so, $Q < Z$)

III. $F \geq N$: False (As, $F \geq M > Q = R < S = P \leq N$, so, the relation between F and N cannot be determined)

IV. R < A: True (As, $A \geq F \geq M > Q = R$, so, A > R)

V. Q < Z: True (As, $Q = R < S = P \leq N \leq Z$, so, Q < Z)

Therefore, only conclusions IV and V are definitely true.

Paper 2

IBPS RRB PO PRELIMS SOLVED PAPER 2024

REASONING ABILITY

Directions (1-5): Study the following information carefully and answer the questions given below:

Fourteen persons sit in two parallel rows. Aarav, Bhavya, Charu, Divya, Esha, Farhan, Gaurav sit in row-1 facing north and Priya, Qasim, Rahul, Sneha, Tanya, Utkarsh, Vikram sit in row-2 facing south such that the persons sitting in row-1 face the persons sitting in row-2.

Vikram is the only immediate neighbour of Sneha. Tanya sits second to the left of Vikram. Two persons sit between Tanya and the one who faces Farhan. Aarav sits exactly between Bhavya and Charu, who sits diagonally opposite Rahul. Aarav does not face Vikram. Priya faces Divya. Gaurav faces the one who sits just to the right of Utkarsh. Esha does not face Tanya.

1. Who sits second to the right of the one who faces Bhavya?

(*a*) Priya (*b*) Qasim (*c*) Rahul (*d*) Sneha

(*e*) Utkarsh

2. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?

(*a*) Vikram (*b*) Aarav (*c*) Utkarsh (*d*) Gaurav

(*e*) Farhan

3. The number of persons sitting between Qasim and Rahul is the same as the number of persons sitting to the left of _____.

(*a*) Gaurav (*b*) Divya (*c*) Utkarsh (*d*) Charu

(*e*) Vikram

4. If Utkarsh is related to Qasim in a certain way, and Bhavya is related to Farhan in the same way, to whom is Aarav related?

(*a*) Esha (*b*) Divya (*c*) Bhavya (*d*) Farhan

(*e*) Charu

5. Which of the following statements is true?

(*a*) Priya sits diagonally opposite Farhan.

(*b*) More than one person sits between Divya and Gaurav.

(*c*) Priya does not sit just to the left of Utkarsh.

(*d*) Farhan sits at one of the extreme ends.

(*e*) None is true

Directions (6-8): In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

(*a*) If only conclusion I is true.

(*b*) If only conclusion II is true.

(*c*) If either conclusion I or II is true.

(*d*) If neither conclusion I nor II is true.

(*e*) If both conclusions I and II are true.

6. **Statements:** $A > B = C \geq D < E$, $F \leq D > G$

Conclusions:

I. $A > E$

II. $G < A$

7. **Statements:** $P = U \leq V > W < X \leq Y$, $Z < Y = A$

Conclusions:

I. $W < A$

II. $W \geq Y$

8. **Statements:** $P \geq Q \geq R = S > T \leq U < V \leq W$

Conclusions:

I. $Q < S$

II. $U < R$

9. In the number '657412862', how many pairs of the digits have the same number of digits between them (both forward and backward direction) in the number series?

(*a*) Four (*b*) Two (*c*) One (*d*) Three

(*e*) More than four

Directions (10-12): Study the following information carefully and answer the questions given below:

B is the only daughter of C, who is the mother-in-law of F. D is the paternal grandfather of B's nephew. D has two sons, one daughter and no siblings. J is the sister-in-law of E. F is the mother of K, who is a married male. H is the uncle of E, who is not a daughter of G. A is the aunt of G, who is a sibling of B and H.

10. How is B related to K?

(*a*) Mother (*b*) Aunt (*c*) Uncle (*d*) Mother-in-law

(*e*) None of these

11. Which of the following is true?

(*a*) G is the daughter of D. (*b*) K is the son of J.

(*c*) H is the A's nephew. (*d*) D is the F's father.

(*e*) All are true

12. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?

(*a*) K (*b*) E (*c*) A (*d*) H

(*e*) D

Directions (13-17): Study the following information carefully to answer the given questions:

Ten females Nisha, Oorja, Pooja, Qamra, Riya, Sneha, Tanya, Urvi, Vidya, and Warda, are living in a five-story building such as ground floor is numbered as 1, the floor above it is numbered 2, and the top floor is numbered as 5. Each of the floor has 2 flats in it viz. flat-X and flat-Y. Flat-X of floor-2 is immediately above flat-X of floor-1 and immediately below flat-X of floor-3 and so on. In the same way flat-Y of floor-2 is immediately above flat-Y of floor-1 and immediately below flat-Y of floor-3 and so on. Flat-X is in the west of flat-Y.

There is two floors gap between Sneha and Oorja, and both live in different flats. Sneha lives just below Pooja but not in the same flat. Oorja lives neither on the 4th floor nor on the 5th floor. Vidya lives to the west of Tanya, who lives just south-east of Nisha. Urvi lives just above Warda's flat. Qamra lives to the north of Riya.

13. Who among the following lives in flat-X of the 2nd floor?
(*a*) Pooja (*b*) Sneha (*c*) Vidya (*d*) Riya
(*e*) None of these

14. Which of the following groups lives on an even-numbered floor?
(*a*) Sneha, Tanya (*b*) Riya, Urvi
(*c*) Pooja, Qamra (*d*) Vidya, Warda
(*e*) None of these

15. In which of the following flat and floor does Riya live?
(*a*) Flat-Y, Floor 3 (*b*) Flat-X, Floor 1
(*c*) Flat-X, Floor 2 (*d*) Flat-Y, Floor 4
(*e*) Flat-Y, Floor 1

16. How many floors are between Qamra and the person who lives just below Tanya's flat?
(*a*) One (*b*) Three (*c*) Two (*d*) None
(*e*) None of these

17. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?
(*a*) Urvi (*b*) Tanya (*c*) Sneha (*d*) Warda
(*e*) Oorja

18. If we form a four-letters meaningful word by using the first, second, third, and sixth letters from the left end of the word 'CARNATIONS', then which of the following will be the second letter of the meaningful word thus formed? If more than one word is formed, mark Z as your answer. If no meaningful word is formed, mark X as your answer.
(*a*) A (*b*) C (*c*) R (*d*) X
(*e*) Z

Directions (19-22): Answer these questions based on the following information.

In a certain code:

"happy not smart strong quick" is coded as - "xa pb uv qr wx"

"strong brave clever quick" is coded as - "uv wx st mn"

"brave happy not agile" is coded as - "pb st xa yz"

"smart clever quick" is coded as - "qr mn uv"

19. What will be the code for "brave" as per the given code language?
(*a*) xa (*b*) st (*c*) qr (*d*) pb
(*e*) None of these

20. What will be the code for "happy" as per the given code language?
(*a*) wx (*b*) qr (*c*) pb (*d*) xa
(*e*) Either xa or pb

21. Which among the following words is coded as "qr" as per the given code language?
(*a*) strong (*b*) clever (*c*) smart (*d*) happy
(*e*) None of these

22. What will be the possible code for "happy strong" as per the given code language?
(*a*) xa wx (*b*) st wx (*c*) xa pb (*d*) qr mn
(*e*) mn yz

Directions (23-26): In each of the questions below, some statements are given, followed by conclusions/ a group of conclusions. You have to assume all the statements to be true, even if they seem to be at variance from the commonly known facts, and then decide which of the given conclusions logically follow (s) from the information given in the statements:

(*a*) If only conclusion I follows.
(*b*) If only conclusion II follows.
(*c*) If either conclusion I or II follows.
(*d*) If neither conclusion I nor II follows.
(*e*) If both conclusions I and II follow.

23. Statements:
Only a few mangoes are guavas.
Some guavas are grapes.
No grapes is lemon.
Conclusions:
I. Some grapes are not mangos.
II. All mangoes being lemons is a possibility.

24. Statements:
All horses are cows.
Some cows are not elephants.
Only a few tigers are elephants.
Conclusions:
I. All horses being elephants is a possibility.
II. All tigers being elephants is a possibility.

25. Statements:
Some notebooks are pencils.
Only pencils are sharpners.
No notebook is marker.
Conclusions:
I. Some sharpners are not markers.
II. Some sharpners are markers.

26. Statements:
Some utensils are not studytables.
Only a few studytables are newspapers.
All newspapers are novels.
Conclusions:
I. All newspapers are studytables.
II. All newspapers being utensils is a possibility.

Directions (27-31): Study the following information carefully and answer the questions given below:

Nine students P, Q, R, S, T, U, V, W, and X were born in different months: January, March, April, May, July, August, September, October, and December of the same year, but not necessarily in the same order. R was born in a month with 30 days. There were two students born between R and X. X was born immediately after a month with 31 days. Q was born in a month with 30 days. Q was born immediately before W. S was born three students after U, who is not the oldest. P was born four months before T.

27. Who among the following was born in August?
(*a*) S (*b*) R (*c*) U (*d*) V
(*e*) None of these

28. How many students were born between U and X?
(*a*) Three (*b*) Four (*c*) Two (*d*) One
(*e*) None of these

29. Which of the following statements is true?
(*a*) U was born in September. (*b*) W was born in October.
(*c*) V was born in May. (*d*) S was born in December.
(*e*) None is true

30. The number of students born between T and V is the same as the number of students born between _____ and _____.

(*a*) P, S (*b*) X, V (*c*) R, W (*d*) Q, P

(*e*) None of these

31. Who was born two months after T?

(*a*) X (*b*) Q (*c*) R (*d*) S

(*e*) None of these

32. Find the odd one out:

(*a*) ACGM (*b*) BDHN (*c*) CEIP (*d*) DFJP

(*e*) EGKQ

Directions (33-35): Study the given information carefully to answer the given questions.

There are seven students – K, L, M, N, X, Y, and Z, of different heights. L is taller than N but shorter than M. Y is taller than L, but not the tallest. Only four students are shorter than Z. Z is shorter than M. X is shorter than L, but not the shortest. N is neither the shortest nor 3rd shortest. The third -highest person's height is 180 cm.

33. Who among the following is the fourth shortest person?

(*a*) Y (*b*) N (*c*) L (*d*) Z

(*e*) None of these

34. If the Y's height is 40 cm more than Z, and the difference in height between X and Y is 100 cm, then what is the possible height of L?

(*a*) 194 cm (*b*) 118 cm (*c*) 180 cm (*d*) 135 cm

(*e*) 119 cm

35. How many students are shorter than the one who is just taller than X?

(*a*) Three (*b*) One (*c*) None (*d*) Two

(*e*) None of these

Directions (36-40): Study the following information carefully and answer the questions given below.

Seven employees– Mohit, Nandini, Ojas, Priya, Qasim, Rohan, and Sneha, sit in a row and all of them facing towards the north direction. Each of them likes a different fruits, viz. Kiwi, Papaya, Cherry, Strawberry, Guava, Pomegranate, and Blueberry. The information given is not necessarily in the same order.

Rohan sits third to the right of Ojas, who likes Cherry. Rohan sits second to the left of Qasim. The one who likes Papaya sits at one of the extreme ends of the row. Priya sits third to the right of the one who likes Guava. Only two employees sit between Nandini and Qasim. Rohan doesn't like Blueberry. Sneha sits fourth to the left of Rohan. The one who likes Kiwi sits second to the right of Nandini, who likes neither Blueberry nor Pomegranate. Sneha doesn't sit to the right of the one who likes Papaya.

36. Which of the following fruits does Priya like?

(*a*) Papaya (*b*) Pomegranate

(*c*) Kiwi (*d*) Guava

(*e*) None of these

37. Who among the following likes Blueberry?

(a) Sneha (b) Mohit (c) Qasim (d) Priya

(e) None of these

38. Which of the following pairs sit at the extreme ends?

(*a*) Mohit, Nandini (*b*) Qasim, Priya

(*c*) Qasim, Nandini (*d*) Mohit, Qasim

(*e*) None of these

39. Which of the following is true?

I. Priya sits 2nd to the right of the one who likes Cherry.

II. Ojas and Mohit are immediate neighbours.

III. Sneha sits 2nd to the left of the one who likes Guava.

(*a*) Only I (*b*) Both II and III

(*c*) Only III (*d*) Both I and II

(*e*) Only II

40. What is the position of the one who likes Kiwi to the one who likes Papaya?

(*a*) 2nd to the right (*b*) Immediate right

(*c*) 4th to the right (*d*) 2nd to the left

(*e*) Immediate left

QUANTITATIVE APTITUDE

Directions (41-46): What will come in the place of the question mark (?) in the following number series?

41. 461, ?, 1020, 1145, 1209, 1236

(*a*) 773 (*b*) 1090 (*c*) 586 (*d*) 804

(*e*) 1261

42. 150, 133, 120, 109, 102, ?

(*a*) 97 (*b*) 103 (*c*) 85 (*d*) 101

(*e*) 80

43. 34, ?, 49, 69, 109, 189

(*a*) 34 (*b*) 47 (*c*) 39 (*d*) 32

(*e*) 38

44. 3.5, 21, 105, 420, ?, 2520

(*a*) 1260 (*b*) 1050 (*c*) 600 (*d*) 750

(*e*) 1200

45. 18, 19, 40, 123, ?, 2485

(*a*) 500 (*b*) 496 (*c*) 502 (*d*) 406

(*e*) 310

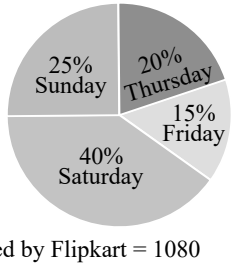
46. 76, 114, 171, 247, ?, 456

(*a*) 342 (*b*) 320 (*c*) 356 (*d*) 328

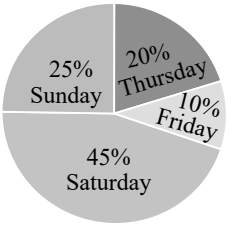
(*e*) 364

Directions (47-52): The pie chart (I) shows the percentage distribution of the total number of orders delivered by Flipkart and Amazon together on four different days. The pie chart (II) shows the percentage distribution of the total number of orders delivered by Flipkart on these days. Read the following pie charts carefully and answer the questions given below.

(I) Total orders delivered by Filpkart and Amazon together = 1440



(II) Total orders delivered by Flipkart = 1080



EXPLANATION

Solutions (1-5):

Sneha Vikram Qasim Tanya Utkarsh Priya Rahul

Row-2

Row-1

Charu Esha Aarav Gaurav Bhavya Divya Farhan

1. (*b*) Qasim sits second to the right of the one who faces Bhavya.

2. (*e*) Farhan sits at the end of the row.

3. (*a*) The number of persons sitting between Qasim and Rahul is the same as the number of persons sitting to the left of Gaurav.

4. (*c*) As, Utkarsh sits second to the left of Qasim.
Similarly, Aarav sits second to the left of Bhavya.

5. (*d*) Farhan sits at one of the extreme ends.

6. (*b*) I. A > E (False) {∵ A > C ≥ D < E}
II. G < A (True) {∵ A > C ≥ D > G}
So, only conclusion II is true.

7. (*a*) I. W < A (True) {∵ W < X ≤ Y = A}
II. W ≥ Y (False) {∵ W < X ≤ Y }
So, only conclusion I is true.

8. (*d*) I. Q < S (False) {∵ Q ≥ R = S}
II. U < R (False) {∵ R = S > T ≤ U}
So, neither conclusion I nor II is true.

9. (*d*) 6 5 7 4 1 2 8 6 2

So, three pairs – 12, 24, 56.

Solutions (10-12):

A (–) — C (–) = D (+)

F (–) = G (+) — B (–) — H (+)

E (+) — K (+) = J (–)

10. (*b*) B is the aunt of K.

11. (*c*) H is the A's nephew.

12. (*c*) Except A all are males.

Solutions (13-17):

Floor	Flat-X	Flat-Y
5	Qamra	Pooja
4	Sneha	Urvi
3	Nisha	Warda
2	Vidya	Tanya
1	Riya	Oorja

13. (*c*) Vidya lives in flat-X of the 2nd floor.

14. (*a*) Sneha and Tanya lives on an even numbered floor.

15. (*b*) Riya lives in flat-X, of floor 1.

16. (*b*) Three floors are between Qamra and Oorja, who lives just below Tanya's flat.

17. (*c*) All live in flat-Y except Sneha.

18. (*a*) Meaningful word formed is CART.
So, 'A' will be the second letter.

Solutions (19-22):

Word	Code
happy/not	xa/pb
smart	qr
strong	wx
quick	uv
brave	st
clever	mn
agile	yz

19. (*b*) "brave" is coded as "st".

20. (*e*) "happy" is coded as either xa or pb.

21. (*c*) "smart" is coded as "qr".

22. (*a*) Possible code for "happy strong" is "xa wx".

23. (*b*)

Mango Guava Grapes Lemon

So, only conclusion II follows.

24. (*a*)

Horse Cow Elephant Tiger

So, only conclusion I follows.

25. (*a*)

Marker Pencil Notebook Sharpner

So, only conclusion I follows.

26 (*b*)

Utensil Studytable Newspaper Novel

So, only conclusion II follows.

Solutions (27-31) :

Months	Students
January	P
March	U
April	R
May	T
July	S
August	X
September	Q
October	W
December	V

27. (*e*) X was born in August.

28. (*a*)Three students were born between U and X.

29. (*b*) W was born in October.

30. (*c*) The number of students born between T and V is 4 that same as the number of students born between R and W.

31. (*d*) S was born two months after T.

32. (*c*) As, A $\xrightarrow{+2}$ C $\xrightarrow{+4}$ G $\xrightarrow{+6}$ M
And, B $\xrightarrow{+2}$ D $\xrightarrow{+4}$ H $\xrightarrow{+6}$ N
And, D $\xrightarrow{+2}$ F $\xrightarrow{+4}$ J $\xrightarrow{+6}$ P
And, E $\xrightarrow{+2}$ G $\xrightarrow{+4}$ K $\xrightarrow{+6}$ Q
But, C $\xrightarrow{+2}$ E $\xrightarrow{+4}$ I $\xrightarrow{+7}$ P (Odd one)

Solutions (33-35):

M > Y > Z (180 cm) > L > X > N > K

33. (*c*) L is the fourth shortest person.

34. (*d*) X's height = (180 + 40) – 100 = 120 cm
So, L's height will be between 180 cm and 120 cm.
The possible height of L is 135 cm.

35. (*a*) Three students are shorter than L, who is just taller than X.

Solutions (36-40):

Sneha Ojas Mohit Nandini Rohan Priya Qasim

Blueberry Cherry Guava Strawberry Pomegranate Kiwi Papaya

36. (*c*) Priya likes Kiwi.

37. (*a*) Sneha likes Blueberry.

38. (*e*) Sneha and Qasim sit at the extreme ends.

39. (*b*) Both II and III are true.

40. (*e*) Priya, who likes Kiwi sits immediate left of Qasim, who likes Papaya.

41. (*d*) Pattern of series:

$461 + 7^3 = (804)$

$804 + 6^3 = 1020$

$1020 + 5^3 = 1145$

$1145 + 4^3 = 1209$

$1209 + 3^3 = 1236$

42. (*a*) Pattern of series:

$150 - 17 = 133$

$133 - 13 = 120$

$120 - 11 = 109$

$109 - 7 = 102$

$102 - 5 = (97)$

43. (*c*) Pattern of series:

$34 + 5 = (39)$

$39 + 10 = 49$

$49 + 20 = 69$

$69 + 40 = 109$

$109 + 80 = 189$

44. (*a*) Pattern of series:

$3.5 \times 6 = 21$

$21 \times 5 = 105$

$105 \times 4 = 420$

$420 \times 3 = (1260)$

$1260 \times 2 = 2520$

45. (*b*) Pattern of series:

$18 \times 1 + 1 = 19$

$19 \times 2 + 2 = 40$

$40 \times 3 + 3 = 123$

$123 \times 4 + 4 = (496)$

$496 \times 5 + 5 = 2485$

46. (*a*) Pattern of series:

$76 + 19 \times 2 = 114$

$114 + 19 \times 3 = 171$

$171 + 19 \times 4 = 247$

$247 + 19 \times 5 = (342)$

$342 + 19 \times 6 = 456$

Solutions (47-52):

On Thursday:

Total number of orders delivered by Flipkart and Amazon together $= 1440 \times \frac{20}{100} = 288$

Total number of orders delivered by Flipkart $= 1080 \times \frac{20}{100} = 216$

$\therefore$ Total number of orders delivered by Amazon $= 288 - 216 = 72$

Similarly, we can find orders delivered by Flipkart and Amazon on others days.

Days	Total number of orders delivered by Flipkart and Amazon together	Total number of orders delivered by Flipkart	Total number of orders delivered by Amazon
Thursday	288	216	72
Friday	216	108	108
Saturday	576	486	90
Sunday	360	270	90

47. (*b*) Total number of orders delivered by Amazon on Monday

$= 216 \times \frac{125}{100} = \frac{5}{4} \times 216 = 270$

$\therefore$ Total number of orders delivered by Amazon on Monday and Tuesday together $= 175 \times 2 = 350$

Total number of orders delivered by Amazon on Tuesday $= 350 - 270 = 80$

48. (*e*) Total number of orders delivered by Amazon on Saturday and Thursday together $= 72 + 90 = 162$

$\therefore$ Required percentage

$= \frac{216 - 162}{216} \times 100 = 25\%$

49. (*a*) Required difference $= 270 \times \frac{3}{5} - 90 \times \frac{7}{9}$

$= 162 - 70 = 92$

50. (*c*) The total number of orders delivered by Flipkart and Amazon together on Monday $= 576 - 76 = 500$

Total number of orders delivered by Amazon on Monday and Wednesday $= 160 \times 2 = 320$

We have no actual data about the total number of orders delivered by Amazon on Wednesday. So, can't be determined.

51. (*c*) Total number of orders delivered by Flipkart on Thursday and Sunday together $= 216 + 270 = 486$

Total number of orders delivered by Amazon on Friday and Saturday together $= 108 + 90 = 198$

$\therefore$ Required ratio $= 486 : 198 = 27 : 11$

52. (*e*) Total number of orders delivered by Flipkart in night shift on Thursday

$= 216 \times \frac{5}{12} = 90$

Total number of orders delivered by Amazon in night shift on Thursday $= \frac{25}{100} \times 72 = 18$

$\therefore$ Required percentage $= \frac{90 - 18}{360} \times 100 = 20\%$

Solutions (53-58):

For A:

Comedy movies downloaded in quarter 1

$= 130 \times \frac{5}{13} = 50$

Action movies downloaded in quarter 1

$= 130 \times \frac{8}{13} = 80$

Comedy movies downloaded in quarter 2

$= 160 \times \frac{3}{8} = 60$

Action movies downloaded in quarter 2

$= 160 \times \frac{5}{8} = 100$

For B:

Comedy movies downloaded in quarter 1

$= 110 \times \frac{5}{11} = 50$

Action movies downloaded in quarter 1

$= 110 \times \frac{6}{11} = 60$

Comedy movies downloaded in quarter 2

$= 180 \times \frac{2}{5} = 72$

Action movies downloaded in quarter 2

$= 180 \times \frac{3}{5} = 108$

53. (*b*) Required ratio $= 60 : 60 = 1 : 1$

54. (*d*) The total movies downloaded by C in quarter $1 = \frac{180}{100} \times 60 = 108$

Comedy movies downloaded by C in quarter 1

$= \frac{70}{100} \times 50 = 35$

Action movies downloaded by C in quarter 1 $= 108 - 35 = 73$

$\therefore$ Required difference $= 73 - 60 = 13$

55. (*d*) The total movies downloaded by A in quarter $3 = \frac{160}{16} \times 11 = 110$

Total comedy movies downloaded by A in quarter $3 = 48 \times 2 - 50 = 46$

Action movies downloaded by A in quarter 3 $= 110 - 46 = 64$

$\therefore$ Required percentage $= \frac{64}{180} \times 100 \approx 36\%$

56. (*c*) Average number of action movies downloaded by B in quarter 1 and quarter 2

$= \frac{60 + 108}{2} = 84$

$\therefore$ Required difference $= 84 - 60 = 24$

57. (*e*) According to question,

$X + 12 + X - 4 = 160 + 6 \Rightarrow 2X = 158 \Rightarrow X = 79$

58. (*b*) Required percentage

$= \frac{100 - 60}{100} \times 100 = 40\%$

59. (*d*) $\frac{209}{11} + 32 = 179 - ? \Rightarrow 19 + 32 = 179 - ?$

$\Rightarrow ? = 179 - 51 = 128$

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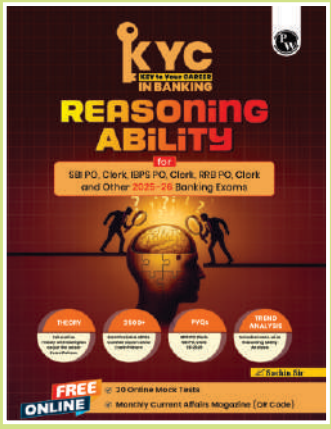

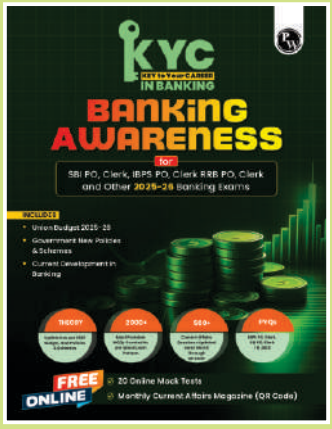

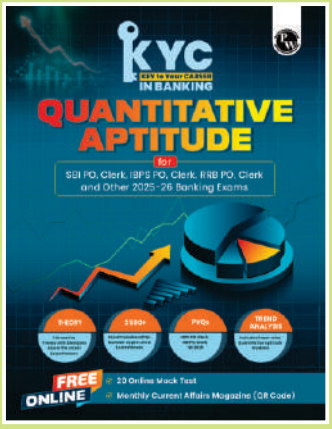

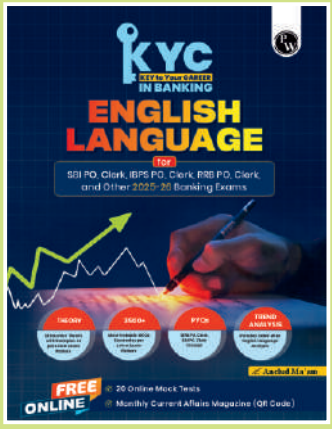

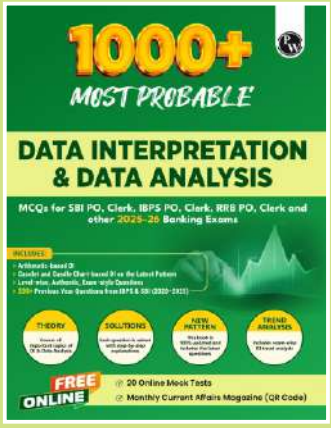

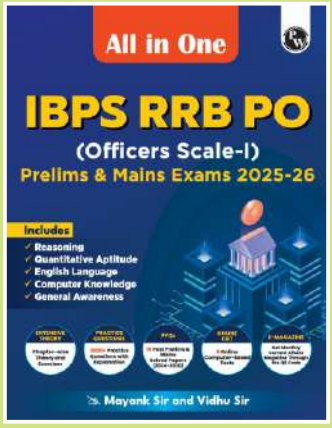

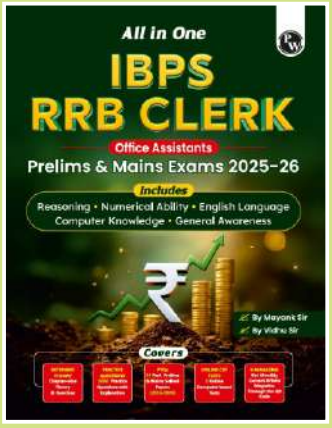

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