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RRB PO Prelims

Memory Based Paper
03 Aug, 2024 Shift 1



80 Questions

Que. 1 **Direction:** Study the following information carefully and answer the question given below:

Seven persons A, B, C, D, E, F and G are sitting in a linear row. All of them are facing in north direction. They all like different fruits Apple, Mango, Banana, Kiwi, Watermelon, Cherry, and Orange not necessarily in same order

D sits second to the left of the one who likes kiwi. D likes mango. The person who likes cherry sits fourth to the right of the one who like mango. A sits third to the left of one who likes cherry. The person who likes apple sits on one of the extreme ends of the row. E sits sixth to the right of the one who likes apple. F likes kiwi and sits at the center of the row. C likes watermelon and sits adjacent to the F. The person who likes orange does not sit adjacent to the one who likes kiwi. B sits fifth to the left of the one who likes cherry.

Who is sitting second to the right of the one who is sitting immediate right of the one who like Banana?

1. C
2. A
3. One who likes cherry
4. One who like orange
5. None of these

Correct Option - 3

Que. 2 Who is sitting Second to the right of the one who likes banana ?

1. A
2. C
3. G
4. E
5. B

Correct Option - 2

Que. 3 Who is sitting at the extreme end of the row?

1. D
2. A
3. B
4. F
5. C

Correct Option - 3

Que. 4 Which of the following statement is true?

1. One who like cherry is sitting immediate right of one who like orange

2. E likes orange
3. Four person are sitting between Cherry and Apple
4. Both a and b are true
5. Both b and c are true

Correct Option - 5

Que. 5 Who is sitting third left to the one who likes watermelon?

1. D
2. A
3. B
4. C
5. G

Correct Option - 1

Que. 6 **Directions:** Read the given information carefully and answer the following questions.

There are eight persons in a family. A, B, C, D, E, F, G, and H in the family. There are three married couples in the family. Husband of C has two grandchildren. A is the brother-in-law of E. G is the granddaughter of H. B is the sister of A. F is the Aunt of D who is a male. E is the Son-in-law of C. B has only one child.

How is H related to F?

1. Father
2. Mother
3. Father-in-law
4. Husband
5. Son

Correct Option - 3

Que. 7 Which of the following statement is correct?

1. B is the wife of E
2. F is the daughter of C
3. G is the grandson of C
4. H is the husband of F
5. None of these.

Correct Option - 1

Que. 8 How is B related to G?

1. Grandmother
2. Mother
3. Wife

4. Aunt
5. Daughter

Correct Option - 4

Que. 9 **Direction:** Study the following information carefully and answer the questions given below.

Ten persons – M, N, O, P, Q, R, S, T, U and V are living in five different floors of a building. Ground floor numbered as 1 and top floor is numbered as 5. There are two flats on each floor- flat-1 and flat-2 from west to east such that flat-1 is to the west of flat-2. Flat-1 of second floor is exactly above flat-1 of first floor and exactly below flat-1 of third floor and other flats are placed in the same way but not necessarily in the same order.

V lives on an odd numbered floor but does not live on an even numbered flat. More than one floor is there between the floor of M and the floor on which N lives. U lives to the east of V on the same floor. One floor is there between V who is not on the lowermost floor and the floor on which R lives, both live on the same flat number. M lives to the west of P and does not live on an even numbered floor. O who lives to the North-West of T is not on the fifth floor. Only one floor gap is there between the floor of Q and the floor on which S lives. T is not an immediate neighbour of S. M does not live above Q.

Who lives to the South-West of S?

1. N
2. U
3. P
4. T
5. Q

Correct Option - 5

Que. 10 Who among the following lives on Floor-2, Flat-2?

1. Q
2. V
3. T
4. P
5. None of the above

Correct Option - 3

Que. 11 If Q and O, interchange their positions then who among the following will be to the North-East of Q?

1. U
2. S
3. P
4. Cannot be determined
5. N

Correct Option - 5

Que. 12 Who among the following lives between the one who lives on Floor-2, Flat-1 and Floor-4, Flat-2?

1. Only V
2. Only U
3. Both V and U
4. Both M and N
5. Both N and Q

Correct Option - 3

Que. 13 Four of the following five are alike in a certain way and thus forms a group. Choose the one who is different from others and does not form a group?

1. M and P
2. Q and T
3. S and O
4. R and N
5. V and P

Correct Option - 5

Que. 14 How many such pairs of digits are there in the number '250853908', each of which has as many digits as between them in the number as are there in the general numerical order?

1. Two
2. One
3. Three
4. None
5. Four

Correct Option - 1

Que. 15 If it is possible to make only one meaningful English word with the second, third, fifth and the eighth letters of the word SHAREHOLDER, which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

1. A
2. L
3. E
4. X
5. Y

Correct Option - 5

Que. 16 **Directions:** Read the instructions carefully and answer the question below.

Eight candidates, A, B, C, D, E, F, G, and H are called in for their physical test. It is observed that the height of each of these candidates is different from one another. Both H and E are taller than G. B is taller than D. At least five persons are shorter than F. Only two persons are there between D and E. G is taller than B. C is one of the persons who are taller than A. Either A or G is the third tallest person.

How many people are taller than G?

1. Two
2. Three
3. Five
4. One
5. Four

Correct Option - 3

Que. 17 Which of the following is true about the height of H?

1. H is taller than F.
2. A is taller than H.
3. H is the fifth tallest person.
4. H is taller than D only.
5. E is taller than H

Correct Option - 2

Que. 18 Who is the second shortest person?

1. G
2. H
3. D
4. B
5. E

Correct Option - 4

Que. 19 In the question, assuming the given statements to be true, find which of the conclusion (s) among the given two conclusions is/are definitely true and then give your answer accordingly.

Statements:

Only a few Music is Enjoy.

All Food is Enjoy.

Some Cravings is Food.

Conclusions:

I. All Cravings is Music.

II. Some Cravings is not Music.

1. Only conclusion I follows
2. Only conclusion II follows

3. Either conclusion I or II follows
4. Neither conclusion I nor II follows
5. Both conclusions I and II follow

Correct Option - 3

Que. 20 **Direction:** In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows/follow from the given statements, disregarding commonly known facts

Statements:

- Few solid are liquid.
- Each vapour are liquids.
- Only a few Air are vapour.

Conclusions:

- I. All Air are liquid is a possibility.
- II. Some solid are not vapour.

1. Only conclusion I follows
2. Only conclusion II follows
3. Both conclusion I and II follows
4. Either conclusion I or II follows
5. Neither conclusion I nor II follows

Correct Option - 1

Que. 21 **Directions:** In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statement-I: Few Shop are Supermarket.

Statement-II: Only a few Supermarket are D-Mart.

Statement-III: Only a few D-mart are Local.

Conclusion-I: All D-Mart being Shop is a possibility.

Conclusion-II: Some Supermarket are Local.

1. Only II follows
2. Neither I nor II follows
3. Both I and II follow
4. Only I follows
5. Either I or II follows

Correct Option - 4

Que. 22 **Direction:** Study the following information carefully and answer the questions given below:

Fourteen persons sit in two parallel rows such that M, N, O, P, Q, R, and S sit in row 1 and face south while A, B, C, D, E, F, and G sit in row 2 and face north but not necessarily in the same order. The persons sitting in row 1 face the persons sitting in row 2 and vice versa.

F sits third to the right of D and either of them sits at the extreme end. The one who faces F sits second to the left of M. R sits next to M and faces the one who sits immediate left of E. More than two persons sit between C and E. Two persons sit between M and P who is the only neighbor of O. Q faces A. N is neither immediate neighbour of S nor Q and none of the three faces G.

Which of the following person is facing S?

1. B
2. C
3. D
4. E
5. F

Correct Option - 5

Que. 23 Which of the following pair is sitting at the ends of the rows?

1. O - C
2. Q - A
3. D - R
4. F - N
5. None of the above

Correct Option - 1

Que. 24 How many persons are sitting to the right of B in a row?

1. Three
2. Four
3. Five
4. Two
5. One

Correct Option - 2

Que. 25 If all the persons in Row 2 are arranged according to the English alphabetical order from left to right, then which of the following person is sitting second to the left of the person facing M after the rearrangement?

1. B
2. G
3. D
4. E

5. C

Correct Option - 5

Que. 26 Who among the following is sitting immediate left of the person who is sitting opposite to the person who is sitting immediate right of G?

1. E
2. N
3. R
4. M
5. P

Correct Option - 3

Que. 27 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 7651324, then what will be the sum of number/numbers not repeated in the new number formed?

1. 4
2. 2
3. 7
4. 10
5. 3

Correct Option - 4

Que. 28 **Directions:** Study the following information carefully and answer the questions given below.

In a certain code language:

- ‘There is flower in garden’ is written as ‘ss hh nn ll aa’
‘Jasmine is a beautiful flower’ is written as ‘xz lm ss ee ll’
‘Rakesh worker in garden daily’ is written as ‘mn nn oo aa ai’
‘daily Jasmine flower is used’ is written as ‘ai ll lm sa ss’

What is the code for ‘Daily Jasmine’ in the given code language?

1. aa hh
2. oo aa
3. lm ai
4. ss zz
5. hh se

Correct Option - 3

Que. 29 What is the code for ‘Rakesh worker’ in the given code language?

1. hh ai
2. mn ll
3. oo ai
4. se ss
5. mn oo

Correct Option - 5

Que. 30 What will the code for 'in' in the given code language?

1. ss
2. aa
3. lm
4. nn
5. aa or nn

Correct Option - 5

Que. 31 What is the code for 'beautiful' in the given code language?

1. ss
2. ll
3. zz
4. ee
5. xz or ee

Correct Option - 5

Que. 32 What is the code for 'used' in the given code language?

1. mn
2. nn
3. ai
4. sa
5. oo

Correct Option - 4

Que. 33 **DIRECTIONS:** In the following question assuming the given statements to be true, find which of the conclusion among the given conclusions is/are definitely true and then give your answers accordingly.

Statements : $T \geq I$, $S < B$, $T = B$, $I > J$

Conclusions :

- I. $B > J$
- II. $T > S$

1. Only conclusion I follows

2. Only conclusion II follows
3. Either conclusion I or II follows
4. Both conclusion I and II follow
5. Neither conclusion I nor II follows

Correct Option - 4

Que. 34 In each of the following questions, assuming the given statements to be true, find which of the following options holds true: Give answer-

Statement: $C \geq M$, $M < K$, $T = K$, $T > L$

Conclusions:

I: $T > M$

II: $K > L$

1. If conclusion I follows.
2. If conclusion II follows.
3. If either conclusion I or II follows.
4. If neither conclusion I nor II follows.
5. If both conclusions I and II follow.

Correct Option - 5

Que. 35 **Directions:** In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly

Statements: $P < I$, $V = E$, $K \geq V$, $I < N < T \geq K$

Conclusions:

I. $T > P$

II. $T > E$

III. $E = T$

1. Either conclusion II or III and I are True
2. Only conclusion I is True
3. Only conclusion II is True
4. Only conclusion III is True
5. Both conclusion II and III are True

Correct Option - 1

Que. 36 **Direction:** Study the following information carefully and answer the following questions.

Nine persons- Lucas, Monu, Nehru, Om, Priya, Qasim, Rohit, Sonu, and Tipu are starting a new tournament on different months- January, April, May, June, July, September, October, November, and December but not necessarily in the same order. The person who starts five months before Lucas started immediately before Qasim. Lucas does not start the tournament in the month having an odd number of days. Rohit started in the month having an even number of days but after Lucas. The number of persons who started between Lucas and Rohit is the same as between Nehru and Monu. Both Nehru and Monu started in the month having an odd number of days. Neither Monu nor Nehru starts in October. The number of persons started before Monu is the

same as after Om. Om started the tournament two persons before Tipu. Sonu starts immediately after the one who started two persons before Rohit. The number of persons started between Priya and Rohit is the same as between Nehru and Sonu.

Which of the following represents the month in which Sonu has started the tournament?

1. October
2. June
3. May
4. July
5. December

Correct Option - 1

Que. 37 How many person have started the tournament between the months in which Tipu and Rohit have a started?

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 4

Que. 38 Which of the following represents the persons who have started the tournament in January and June respectively?

1. Rohit, Monu
2. Om, Lucas
3. Lucas, Priya
4. Om, Priya
5. Tipu, Nehru

Correct Option - 2

Que. 39 How many persons started the tournament after Qasim?

1. 6
2. 5
3. 7
4. None
5. 2

Correct Option - 3

Que. 40 The number of persons who started the tournament before Qasim is same as the number of person started the tournament after ____.

1. Sonu
2. Priya
3. Lucas
4. Om
5. Rohit

Correct Option - 5

Que. 41 **Directions:** Read the data carefully and answer the questions given below.

There were three colleges X, Y and Z. Number of students and teachers in college X is 4000 more than the number of students and teachers in college Y. Number of teachers in college Y is 400, which is 10 % of the total number of students and teachers in college Y. Percentage of boys in college Y is 50 % of the total number of students and teachers in college Y. A number of boys(students) in college X are equal to the number of boys(students) in college Y. Number of girls in college X is half the number of boys in college X. Number of students and teachers in college Z is equal to the half the sum of the numbers of students and teachers of college X and Y. Number of teachers, boys and girls (students) in college Z are equal. Find the total number of teachers in 3 of the colleges.

1. 2400
2. 5400
3. 7400
4. 8400
5. 9400

Correct Option - 3

Que. 42 Find the ratio of total number of boys in college X, Y and Z to the total number of girls in college X, Y and Z.

1. 11 : 12
2. 30 : 23
3. 10 : 13
4. 17 : 19
5. 17 : 21

Correct Option - 2

Que. 43 Sum of boys and girls in college X is what percent of the total number of students and teachers of college X?

1. 37.5%
2. 25.5%
3. 13.5%
4. 17.5%

5. 20.5%

Correct Option - 1

Que. 44 If in college Z, among the number of teachers 20% are female teachers, then find the number of male teachers among the teachers.

1. 1500
2. 1800
3. 1600
4. 1400
5. 1700

Correct Option - 3

Que. 45 Find the average of total number of students and teachers among the 3 of the colleges.

1. 2000
2. 1200
3. 6000
4. 4000
5. 7000

Correct Option - 3

Que. 46 A and B can complete a piece of work in 56 days and 42 days, While C can destroy the work in 32 days. If A and B started doing the work together and after 20 days, C joins them, then find the time taken by them to complete the whole work.

1. 31 days
2. 35 days
3. 32 days
4. 36 days
5. None of these.

Correct Option - 4

Que. 47 A and B started a business with a total investment of Rs.100000 in the ratio 3 : 2. After 3 months B decided to leave the business with his principle and C decided to join in with the same investment. If, the year-end profit is Rs.30000, find out the difference between B and C's take home profit.

1. 5000
2. 3000
3. 6000
4. 7000
5. None of these

Correct Option - 3

Que. 48 The ratio of income of A to that of B is 7 : 9. They together save Rs. 10000 and their savings are in the ratio 2 : 3. If the expenditure of B is 25% more than that of A, then find the total income of A and B.

1. Rs. 76000
2. Rs. 72000
3. Rs. 64000
4. Rs. 68000
5. None of these

Correct Option - 3

Que. 49 Three pipes A, B, and C fill a cistern in 20 minutes, 30 minutes and 40 minutes respectively. These pipes are opened alternately for one minute but beginning with pipe A. In what time will the cistern be full?

1. $45/2$
2. $53/2$
3. $47/2$
4. $55/2$
5. None of these

Correct Option - 4

Que. 50 **Directions:** Read the table carefully and answer the following questions.

The table shows the number of people learning three different dance forms in four dance schools.

Total learners = Hip-hop learners + Classical learners + Jazz learners

School	Total learners	Number of people learning Hip-hop	Ratio (Number of people learning Classical : Number of people learning Jazz)
A	200	60	4 : 3
B	150	50	2 : 3
C	200	80	7 : 5
D	100	40	2 : 1

What is the average number of people learning Jazz in school A and B and Hip-hop in school C and D?

1. 60
2. 90
3. 80
4. 105
5. 70

Correct Option - 1

Que. 51 The number of people learning Classical in schools B and C is how much percent more/less than that of people learning Jazz in schools A and D?

1. 37.5%
2. 25%
3. 22.5%
4. 40%
5. 33.33%

Correct Option - 1

Que. 52 The number of Classical learners in school C is what percent of the number of Hip-hop learners in school B?

1. 160%
2. 140%
3. 120%
4. 166.66%
5. 125%

Correct Option - 2

Que. 53 What is the ratio of the number of Jazz learners in schools B and C to the number of learners of all dance forms in school A?

1. 12 : 17
2. 15 : 26
3. 12 : 23
4. 9 : 16
5. 11 : 20

Correct Option - 5

Que. 54 If in school A there are 40% male learners and no male is learning Jazz then what can be the maximum difference between the number of female learners of Hip-hop and Classical in same school?

1. 40
2. 20
3. 30
4. 60
5. 50

Correct Option - 4

What approximate value should come in place of the question mark (?) in the following question?

Que. 55 $39.87 + 56.83 - 19.11 \times 3.99 + 7.84 = ?$

1. 25
2. 32
3. 27
4. 26
5. 29

Correct Option - 5

Que. 56 What approximate value should come in the place of question mark (?) in the following question?
 $936.43 \div 13 \div 3.99 \times 12 - 13.48 \times 13.33 = ?$

1. 47
2. 64
3. 50
4. 13
5. 24

Correct Option - 1

Que. 57 What approximate will come in the place of the question mark '?' in the following question?
 $(23.42 + 17.43) \div 2 \times 4 - 48.25 + 643.86 = ?$

1. 521
2. 634
3. 598
4. 676
5. 741

Correct Option - 4

Que. 58 What approximate should come in place of the question mark (?) in the following question?
 $? \% \text{ of } 599.97 + 16.03 \times 18.98 = (20.99)^2 - 5.03$

1. 21
2. 22
3. 23
4. 24
5. 25

Correct Option - 2

Que. 59 What approximate value should come in the place of the question mark '?' in the following question?
 $374.94 \div 24.89 \times 3.87 + 199.88 \div 39.96 \times 6.93 = ?$

1. 75
2. 85
3. 95
4. 105
5. 125

Correct Option - 3

Que. 60 A vessel has 20 liters of a mixture of milk and water having 75% milk. Vessel B has p liters of a mixture of milk and water having 60% milk. The contents of the vessels are mixed to form a mixture having 66% milk. Find the value of p .

1. 80
2. 40
3. 30
4. 50
5. None

Correct Option - 3

Que. 61 The average age of A and B is 27 years, If C replaces A the average becomes 24 years and if C replaces B the average becomes 23 years. What will be the sum of ages of all three 4 years from now?

1. 74 years
2. 78 years
3. 88 years
4. 84 years
5. 86 years

Correct Option - 5

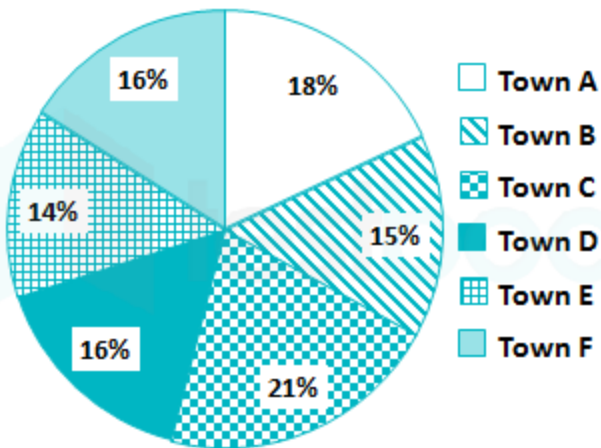
Que. 62 if a square is inscribed in a right angled triangle, a vertex of the square touching the hypotenuse, what is the area of the square approximately if sides of the triangle are 6 cm, 8 cm, 10 cm ?

1. 12.5 cm^2
2. 3.4 cm^2
3. 17.5 cm^2
4. 11.7 cm^2
5. 13.8 cm^2

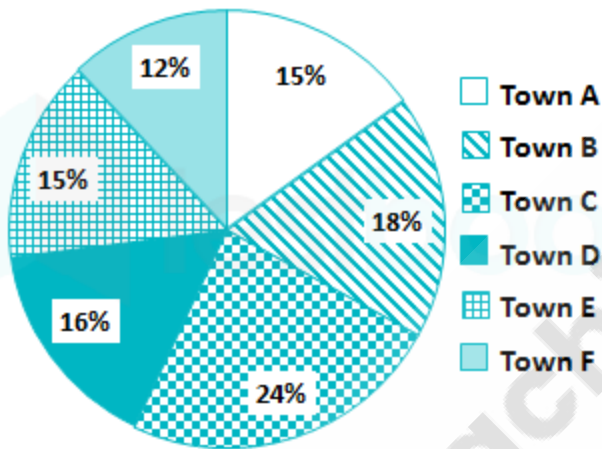
Correct Option - 4

Que. 63 **Directions:** Data of six towns is given. In the first pie chart distribution of population with respect to six towns. In the second pie chart number of the male population is given. People are categorized as male and female only. Solve the question related to the pie chart given.

Percentage share of Total Population



Percentage share of Total Male Population



Note: Total population of town C is 2184 more than the total population of town B.

Note: Male population of B is 936 less than the male population of town C.

What is the number of female population in the town C and D together?

1. 7338
2. 7448
3. 7228
4. 7668
5. 7558

Correct Option - 3

Que. 64 What is the difference between the number of female in town E and the number of male in the town F?

1. 584
2. 484
3. 684

4. 884
5. 784

Correct Option - 4

Que. 65 What is the ratio of the number of male in the town B and C together to the number of female in the town C and D together?

1. 1874 : 1577
2. 1577 : 1874
3. 1857 : 1616
4. 1638 : 1807
5. 1807 : 1638

Correct Option - 4

Que. 66 In which of the given towns the number of males is the highest?

1. A
2. B
3. C
4. D
5. E

Correct Option - 3

Que. 67 In which of the given town the difference between the number of male and the number of female is the highest?

1. B
2. C
3. D
4. E
5. F

Correct Option - 5

Que. 68 What approximate percentage of the total number of females from all the six towns is more than that of the males from all the six towns?

1. 35%
2. 20%
3. 33.33%
4. 25%
5. 50%

Correct Option - 3

Que. 69 Find the missing term in the following series ?

9, 10, 22, 69, 280, ?

1. 1408
2. 1525
3. 1323
4. 1234
5. 1405

Correct Option - 5

Que. 70 What should come in the place of (?) in the given series?

58, 75, 94, 117, 146, 177, ?

1. 194
2. 211
3. 214
4. 115
5. 218

Correct Option - 3

Que. 71 What should come in the place of (?) in the given series?

216, 212, 221, 196, 245, 124, ?

1. 311
2. 285
3. 297
4. 391
5. 293

Correct Option - 5

Que. 72 What should come in the place of (?) in the given series?

2421, 1909, 1566, 1350, 1225, ?

1. 1245
2. 1161
3. 1192
4. 1202
5. 1107

Correct Option - 2

Que. 73 What should come in the place of (?) in the given series ?

3, 9, 45, 315, 2835, ?

1. 31245
2. 29495
3. 31185
4. 33158
5. 38144

Correct Option - 3

Que. 74 A train of length 200 m running at speed 90 km/hr crosses a tunnel in 24 seconds and another train running at speed 108 km/hr crosses the same tunnel in 30 seconds. Find the length of the second train.

1. 200 m
2. 400 m
3. 500 m
4. 550 m
5. 900 m

Correct Option - 3

Que. 75 A boat's speed in calm water is 5 km/h and the speed of stream is P. It travels 6 km against the current and returns downstream to its starting point in 2 hours and 30 minutes. Determine the value of P.

1. 1 km/hr
2. 3km/hr
3. 5km/hr
4. 2.5 km/h
5. 1.5km/hr

Correct Option - 1

Que. 76 A boy played four games in a five-game series and averaged 40 runs per game. In his last game, he scores 80 runs, which boosts his overall average by $(x - 5)\%$. What would be the value of $(x + 9)$?

1. 16
2. 25
3. 20
4. 34
5. None of these

Correct Option - 4

Que. 77 A scheme was seen to increase the investment by 60% in 6 years at simple interest. What will be the compound interest of Rs. 25000 invested for 4 years at the same rate?

1. Rs. 10502.4
2. Rs. 11602.5
3. Rs. 12404.6
4. Rs. 12604.2
5. Rs. 16408.4

Correct Option - 2

Que. 78 A sum of money becomes eight times in 3 years if the amount is compounded annually. In how much time, the same amount at the same compound interest rate will become sixteen times?

1. 6 years
2. 4 years
3. 8 years
4. 5 years
5. None of these

Correct Option - 2

Que. 79 In a class there are 30% of girls and 70% of boys are studying together. If the 40% of girls and 60% of boys are passed in a test, then what is the percentage of failed students ?

1. 50%
2. 48%
3. 45%
4. 46%
5. 30%

Correct Option - 4

Que. 80 A man sells two books for Rs. 1110. He earns 15% loss on the first book and 25% profit on the second book. If the cost price of first book is equal to selling price of the second book, find cost price of two books.

1. Rs. 700 and Rs. 400
2. Rs. 600 and Rs. 480
3. Rs. 450 and Rs. 650
4. Rs. 500 and Rs. 600
5. Rs. 800 and Rs. 300

Correct Option - 2