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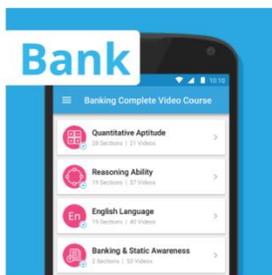
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**Directions (1-5):** Read the information carefully and answer the following questions:

If  $A + B$  means A is the father of B.

If  $A \times B$  means A is the sister of B.

If  $A \$ B$  means A is the wife of B.

If  $A \% B$  means A is the mother of B.

If  $A \div B$  means A is the son of B.

**Q1.** What should come in place of question mark to establish that A is brother of B in the expression?

$A \div P \% H ? B \% L$

(a)  $\times$

(b)  $\div$

(c)  $\$$

(d) Either  $\div$  or  $\times$

(e) Either  $+$  or  $\div$

**Q2.** Which of the given expressions indicates that A is daughter of B?

(a)  $L \% R \$ B + T \times A$

(b)  $L + R \$ B + A \times T$

(c)  $L \% R \% B + T \div A$

(d)  $B + L \$ R + A \times T$

(e)  $L \$ B \div R \% A \div T$

**Q3.** Which of the following options is true if the expression ' $A + B \% J \times L \div K$ ' is definitely true?

(a) L is daughter of B

(b) K is son-in-law of A

(c) A is grandmother of L

(d) B is father of J

(e) J is brother of L

**Q4.** Which of the following expressions is true if A is son of B is definitely false?

(a)  $W \% L \times T \times A \div B$

(b)  $W + L \times T \times A \div B$

(c)  $B + L \times T \times A \div W$

(d)  $W \$ B + L + A + T$

(e)  $W \% B + T \times A \div L$

**Q5. What should come in place of question mark to establish that B is sister-in-law of D in the expression?**

$A \% B \times C ? D + E$

- (a)  $\div$
- (b) %
- (c)  $\times$
- (d) \$
- (e) Either \$ or  $\times$

**Directions (6-10):** In these questions relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer.

**Q6. Statements:**

$E < Z = U \geq T; X \geq Z \geq Y$

**Conclusions:**

**I.**  $Y < E$

**II.**  $T < X$

- (a) Neither conclusion I nor II is true
- (b) Either conclusion I or II is true
- (c) Only conclusion I is true
- (d) Both conclusion I and II are true
- (e) Only conclusion II is true

**Q7. Statements:**

$E < Z = U \geq T; Y > Z \geq X$

**Conclusions:**

**I.**  $Y > E$

**II.**  $X \leq T$

- (a) Both conclusions I and II are true
- (b) Neither conclusion I nor II is true
- (c) Either conclusion I or II is true
- (d) Only conclusion II is true
- (e) Only conclusion I is true

**Q8. Statements:**

$A \geq B \leq C = T < L \geq V$

**Conclusions:**

**I.**  $A \leq V$

**II.**  $L > B$



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- (a) Only conclusion I is true
- (b) Neither conclusion I nor II is true
- (c) Either conclusion I or II is true
- (d) Only conclusion II is true
- (e) Both conclusion I and II are true

**Q9. Statements:**

$N > L \leq C; A > L; B \geq C$

**Conclusions:**

**I.**  $B \geq L$

**II.**  $C \geq N$

- (a) Neither conclusion I nor II is true
- (b) Both conclusions I and II are true
- (c) Only conclusion II is true
- (d) Only conclusion I is true
- (e) Either conclusions I or II is true

**Q10. Statements:**

$N > L \leq C; A > L; B \geq C$

**Conclusions:**

**I.**  $A > N$

**II.**  $C \geq A$

- (a) Only conclusion I is true
- (b) Either conclusion I or II is true
- (c) Only conclusion II is true
- (d) Neither conclusion I nor II is true
- (e) Both conclusions I and II are true



**Directions (11-13): Study the following information and answer the given questions:**

Five people – A, B, C, D and E type at a different speeds. A types faster than D but slower than B, E types slower than D but is not the slowest. The one who types the second fastest types at the speed of 70 words/minutes. The one who types the second slowest types at the speed of 40 words/minutes.

**Q11. How many persons who type slower than A?**

- (a) Four
- (b) None
- (c) Two
- (d) Three
- (e) One

**Q12. On the given information which of the following statements is true?**

- (a) B type fastest
- (b) C type faster than D
- (c) No statement is true
- (d) A type at the speed of 50 words/minutes.
- (e) E type faster only two persons

**Q13. Which of the following can possibly be D's typing speed?**

- (a) 78 words/minutes
- (b) 80 words/minutes
- (c) 50 words/minutes
- (d) 35 words/minutes
- (e) 85 words/minutes

**Directions (14-15): Study the following information and answer the given question:**

Point A is 10m to the south of B. Point G is 3 m to the east of A. Point H is 5 m to the south of G. Point D is 6 m to the west of H. Point C is 10 m to the north of D. Point K is 6 m to the east of C. Point L is 5 m to the north of K.

**Q14. Which of the following represents the direction of point G with respect to point C?**

- (a) south-east
- (b) north-west
- (c) south-west
- (d) south
- (e) north-east

**Q15. How far and in which direction is point B from point L?**

- (a) 5 metres south
- (b) 4 metres east
- (c) 6 metres north
- (d) 3 metres west
- (e) 7 metres north

**Directions (16-20): Study the following information carefully and answer the questions given below:**

Six students P, Q, R, S, T and U stay on different floors of a six-storey building. The ground floor is numbered 1 and the topmost floor is numbered 6. Each of them like different books, viz Hindi, English, Maths, Science, Sanskrit and Art. R likes Science, but stays neither on floor no. 2 nor on floor

no. 5. U likes neither Sanskrit nor Hindi, but stays on floor no. 6. The one who likes Hindi does not stay below the floor of one who like Sanskrit, but stays below the floor of the one who like English. The one who like Art, stays either on floor no. 1 or on floor no. 4. P doesn't stay on an odd-numbered floor. Q, who stays on floor no. 4, is like either Hindi or Sanskrit. Either T or S like English.

**Q16. If S stays on floor no. 1, then T like which of the following subject?**

- (a) Maths
- (b) English
- (c) Science
- (d) Can't be determined
- (e) None of these

**Q17. Who among the following stays on the third floor?**

- (a) T
- (b) Q
- (c) R
- (d) P
- (e) None of these

**Q18. Which of the following combinations is definitely true?**

- (a) 6 - U - Maths
- (b) 1 - T - Art
- (c) 5 - S - English
- (d) 2 - P - Science
- (e) None of these

**Q19. On which floor does the student lives who like English?**

- (a) Floor no. 6
- (b) Floor no. 3
- (c) Floor no. 4
- (d) Floor no. 5
- (e) None of these

**Q20. Q likes which of the following subject?**

- (a) English
- (b) Sanskrit
- (c) Hindi
- (d) Can't be determined
- (e) None of these

**Directions (21-25):** In each of the question-sets below are two/three 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 and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

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

**Q21. Statements:**

All softy are bags.  
Some bags are points.  
No points is a calls.

**Conclusions:**

- I. All softy being points is a possibility.
- II. No calls is a bags.

**Q22. Statements:**

All softy are bags.  
Some bags are points.  
No points is a calls.

**Conclusions:**

- I. All calls being softy is a possibility.
- II. At least some bags are softy.

**Q23. Statements:**

All softy are bags.  
Some bags are points.  
No points is a calls.

**Conclusions:**

- I. At least some calls are bags.
- II. No calls is a softy.

**Q24. Statements:**

Some ponds are bowls.  
All bowls are earns.

**Conclusions:**

- I. At least some ponds are earns.
- II. All earns being ponds is a possibility.





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**Q25. Statements:**

Some ponds are bowls.

All bowls are earns.

**Conclusions:**

I. No earns is a ponds.

II. All bowls being ponds is a possibility.

**Directions (26-30): Study the following information carefully and answer the questions given below:**

Twelve family members are sitting in two parallel rows containing six people each in such a way that there is an equal distance between adjacent persons. All of them gathered in family function. And all of them are discussing some issues which are arising after the marriage of one family member. In row 1 - A, B, C, D, E and F are seated (but not necessarily in the same order) and all of them are facing south. In row 2 - G, H, I, J, K and L are seated (but not necessarily in the same order) and all of them are facing North. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row.

C is the sister of D, who is son of G. B is the mother of H and married to G. B has only one daughter. L is grandmother of D and married to K. A is brother of G's sister I. E is the daughter of L. B's father J has only one son F. D sits fourth to the left of one who is brother of G. The one facing A sits third to the left of K. Only one person sits between K and G. G does not sit at any of the extreme ends of the line. The one facing L sits second to the right of F's sister. L does not sit at any of the extreme ends of the line. Only two people sit between B and B's brothers. The one facing B sits second to the left of J. H is not an immediate neighbour of L. C is not an immediate neighbour of D.

**Q26. Which of the following groups of people represents the people sitting at the extreme ends of both the rows?**

- (a) D, F, J, I
- (b) D, B, H, I
- (c) E, B, H, K
- (d) A, E, G, H
- (e) A, F, L, J

**Q27. Who faces son of J-?**

- (a) D
- (b) C
- (c) I
- (d) E
- (e) B

**Q28. Which of the following is true with respect to the given information?**

- (a) B faces one of the immediate neighbours of J.
- (b) H sits exactly between I and G.
- (c) None of the given options is true.
- (d) A is an immediate neighbour of B.
- (e) A faces L.

**Q29. Which of the following is true regarding E?**

- (a) B sits second to the right of E.
- (b) H is an immediate neighbour of the one who faces E.
- (c) Both C and F are immediate neighbours of E.
- (d) Only one person sits between E and A.
- (e) None of the given options is true.

**Q30. Who amongst the following sits second to the right of the person who faces sister of H?**

- (a) H
- (b) L
- (c) I
- (d) J
- (e) K

**Directions (31-35): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer**

- (a) if the data in statement **I alone** are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- (b) if the data in statement **II alone** are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- (c) if the data **either** in statement I alone **or** in statement II alone are sufficient to answer the question.
- (d) if the data in **both** statement I and II together are **not sufficient** to answer the question.
- (e) if the data in **both** statement I and II **together** are necessary to answer the question.

**Q31. Who is uncle of T?**

**I.** P, who is brother of M, is father of T.

**II.** M is father of S. R is mother of T's sister.

**Q32. Among A, B, C, D, E and F, who is heaviest?**

**I.** F is heavier than D but lighter than A.

**II.** D is heavier than C and E.

**Q33. What is code of Black ?**

- I. "Black and white cow "is coded as- sh th mh nh." All are white ground" is coded as th zx cv bh .  
II. "Only cow are animal" is coded as- mh bh nx wq.

**Q34. How is P related to E?**

- I. P is the son of X.E is the daughter of X.  
II. E is the brother of P's only sister X. E is the son of Y.

**Q35. V, W, X, Y and Z are sitting in a row. If Y is sitting middle of the row, who is sitting second from left? (All are facing north.)**

- I. Z is sitting immediate right of Y, but on the left of W. X does not sit any of the extreme end of line.  
II. X always sits at either of the extreme ends. Neither Y nor W is an immediate neighbour of X.

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

Seven family members T, U, V, W, X, Y and Z like different colour, viz Red, Black, White, Green, Blue, Yellow and Violet. W is the sister of X. X is the only brother of W's sister Y. Y is the daughter of T. U is the mother of W. V is the mother of Z, who is only son of X. All members live in different cities, but not necessarily in the same order. At least two members belong to the same city. V does not like Green. X likes White and belongs to Patna. T belongs to Ranchi only with X's wife. U likes Red but does not belong to Patna. Y likes Blue but does not live in the same city as U. Z does not belongs to Bhopal. The family members who belongs to Ranchi likes neither Violet nor Black. None of those who live in Patna like Black.

**Q36. Who is sister in law of Y?**

- (a) X  
(b) T  
(c) V  
(d) Y  
(e) None of these

**Q37. Who among the following likes Yellow?**

- (a) Z  
(b) T  
(c) V  
(d) X  
(e) None of these

**Q38. Which of the following groups live in Bhopal?**

- (a) Y, W
- (b) U, W
- (c) T, U
- (d) Can't be determined
- (e) None of these

**Q39. Y's sister likes which colour?**

- (a) Green
- (b) White
- (c) Red
- (d) Black
- (e) None of these

**Q40. The member who live in Ranchi like which colour?**

- (a) Green and Red
- (b) Yellow and Black
- (c) Green and Yellow
- (d) Yellow and White
- (e) None of these

**Directions (41-45): What should come in place of question mark in the following questions?**

**Q41. 56% of 958 + 67% of 1008 = ? % of 2000**

- (a) 60.592
- (b) 47.622
- (c) 42.86
- (d) 91.455
- (e) None of these

**Q42.  $7^{2.3} \times 49^{4.7} \times 63^{3.4} \times 81^{5.85} = 63^?$**

- (a) 16.25
- (b) 15.1
- (c) 13.4
- (d) 18.9
- (e) None of these

**Q43.  $?^2 + 65^2 = (160)^2 - (90)^2 - 7191$**

- (a) 75
- (b) 77
- (c) 79
- (d) 81
- (e) None of these

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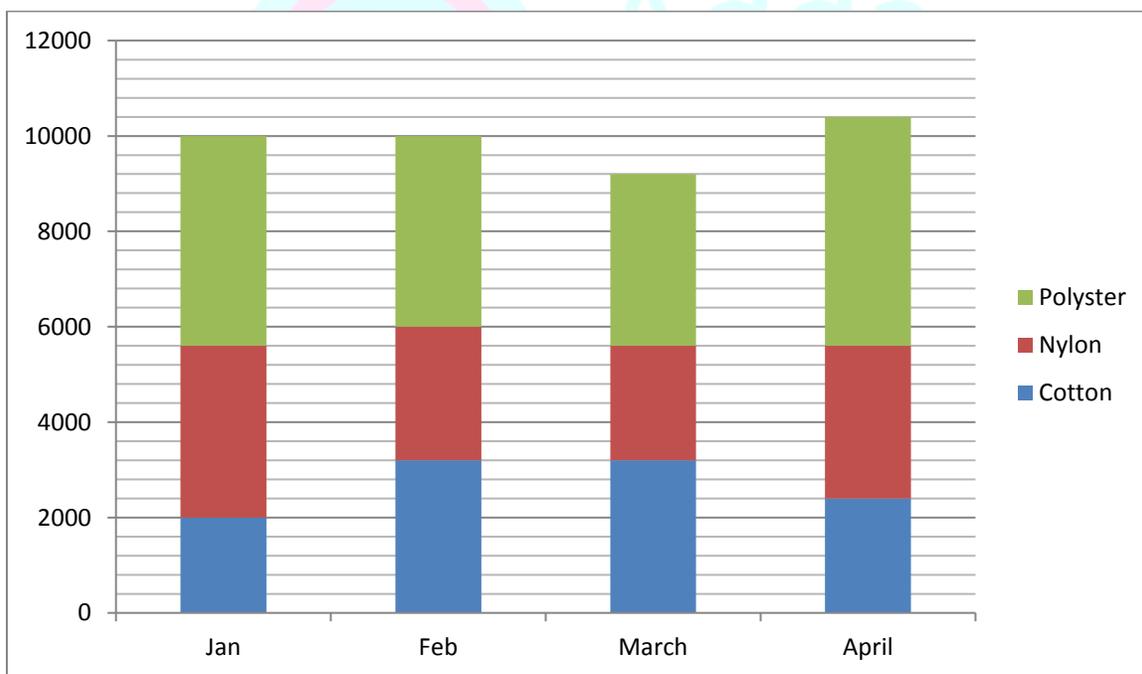
Q44.  $(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$

- (a)  $13 - 2\sqrt{3}$
- (b) 13
- (c) 1
- (d)  $13 - 4\sqrt{3}$
- (e) None of these

Q45.  $3\frac{1}{4} + 2\frac{1}{2} - 1\frac{5}{6} = \frac{?^2}{10} + 1\frac{5}{12}$

- (a) 25
- (b)  $\sqrt{5}$
- (c) 625
- (d) 15
- (e) 5

Direction (46-50): Study the following graph carefully & answer the questions given below:  
Production of cloth in Noida (in meters)



Q46. What is approximate growth in production of cloth in Noida from March to April?

- (a) 13.25%
- (b) 12.75%
- (c) 13.04%
- (d) 12.95%
- (e) 13.50%

**Q47. What is percentage decrease in Nylon from Jan to Feb?**

- (a) 21.92%
- (b) 22.95 %
- (c) 23.95%
- (d) 21.32%
- (e) 22.22%

**Q48. What is ratio of production of polyester in all four months to that of Nylon in same period?**

- (a) 8 : 5
- (b) 3 : 7
- (c) 7 : 5
- (d) 3 : 2
- (e) 9 : 7

**Q49. What was average production of Nylon in Jan, Feb & April together?**

- (a) 3050
- (b) 3200
- (c) 3800
- (d) 3425
- (e) 3400

**Q50. In which month percentage (increment/decrement) in production of cotton from previous month was maximum?**

- (a) Feb
- (b) March
- (c) April
- (d) Either Feb or April
- (e) Can't be determined

**Direction (51-55): What approximate value will come in place of the question mark (?) in the following question?**

**Q51.  $12.13\%$  of  $935.81 + 1498\%$  of  $25.85 = ?$**

- (a) 510
- (b) 500
- (c) 495
- (d) 480
- (e) 475

Q52.  $21.0091 - 6.085 + 13.24 = (3.5 + ?) \times 2$

- (a) 24.5
- (b) 15.5
- (c) 6.5
- (d) 20.5
- (e) 10.5

Q53.  $\sqrt[3]{65} \times 23.93 - 31.04 = ?$

- (a) 98
- (b) 102
- (c) 65
- (d) 79
- (e) 35

Q54.  $(15.96)^2 + 75\% \text{ of } 285 = ?$

- (a) 435
- (b) 485
- (c) 440
- (d) 420
- (e) 470

Q55.  $\frac{4}{5} \times \frac{3}{7} \div \frac{6}{7} \div \frac{5}{9} = ?$

- (a)  $\frac{1}{2}$
- (b)  $\frac{20}{49}$
- (c)  $\frac{9}{17}$
- (d)  $\frac{18}{25}$
- (e)  $\frac{4}{7}$



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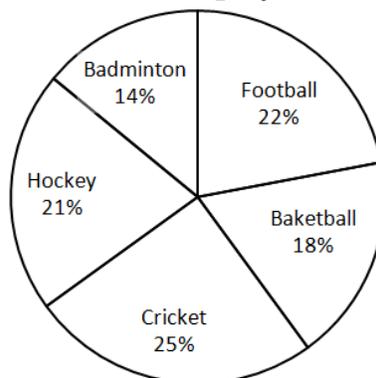
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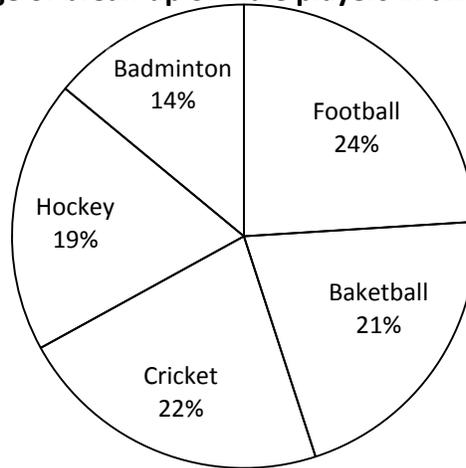
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**Directions (56-60):** Study the pie-chart carefully to answer the following questions:  
**Percentage of players enrolled in different games in a sport academy**

**Total number of players = 2000**



Total number of male players = 1200  
Percentage of break-up of male players in different games



**Q56.** The number of female player enrolled in Hockey is what percent of total number of players in Academy?

- (a) 9.6
- (b) 10.2
- (c) 8.8
- (d) 7.6
- (e) 11.4

**Q57.** What is ratio of male player enrolled in basketball to the number of female player enrolled in Hockey?

- (a) 23 : 16
- (b) 23 : 17
- (c) 21 : 16
- (d) 17 : 23
- (e) None of these

**Q58.** The number of female players enrolled for football is what percent more/less than number of male players enrolled for Badminton?

- (a) 10.2% less
- (b) 9.52% less
- (c) 8.9% more
- (d) 9.8% more
- (e) None of these

**Q59.** How many players enrolled for Cricket and Hockey are female?

- (a) 440
- (b) 424
- (c) 428
- (d) 432
- (e) None of these

**Q60. The minimum number of female players enrolled for which game?**

- (a) Hockey
- (b) Football
- (c) Cricket
- (d) Badminton
- (e) Basketball

**Directions (61-65): In the following questions two equations numbered I and II are given. You have to solve both the equations and**

Give answer (a) if  $x > y$

Give answer (b) if  $x \geq y$

Give answer (c) if  $x < y$

Give answer (d) if  $x \leq y$

Give answer (e) if  $x = y$  or the relationship cannot be established.

**Q61. I.**  $3x + 5y = 28$

**II.**  $8x - 3y = 42$

**Q62. I.**  $(x + y)^2 = 1024$

**II.**  $92551 = 92567 - y$

**Q63. I.**  $3y + 9x = 54$

**II.**  $\frac{28x}{13y} = \frac{140}{39}$

**Q64. I.**  $20x^2 - x - 12 = 0$

**II.**  $20y^2 + 27y + 9 = 0$

**65. I.**  $\sqrt{x} - \frac{\sqrt{5}}{\sqrt{x}} = 0$

**II.**  $y^3 - 5\left(\frac{3}{2}\right) = 0$

**Directions (66-70): Find out wrong number in following number series:**

**Q66. 1500, 1581, 1664, 1749, 1833, 1925, 2016**

- (a) 2016
- (b) 1664
- (c) 1833
- (d) 1581
- (e) 1925



Q67. 33, 321, 465, 537, 573, 590, 600

- (a) 537
- (b) 590
- (c) 600
- (d) 321
- (e) 537

Q68. 655 439 314 250 233 215

- (a) 233
- (b) 314
- (c) 439
- (d) 215
- (e) 250

Q69. 3, 7, 23, 85, 365, 1860

- (a) 7
- (b) 23
- (c) 85
- (d) 1860
- (e) 365

Q70. 1, 5, 3, 17, 19, 67, 91

- (a) 19
- (b) 67
- (c) 3
- (d) 91
- (e) 5

Q71. Twenty-four men can complete a work in sixteen days. Thirty-two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and worked for twelve days. How many more men are to be added to complete the remaining work in 2 days?

- (a) 48
- (b) 24
- (c) 36
- (d) 30
- (e) None of these



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**Q72.** A shopkeeper gave an additional 20 per cent concession on the reduced price after giving 30 per cent standard concession on an article. If Arun bought that article for Rs. 1120, what was the original price?

- (a) Rs. 3000
- (b) Rs. 2400
- (c) Rs. 2400
- (d) Rs. 2000
- (e) None of these

**Q73.** The average age of A and B is 20 years. If C were to replace A, the average would be 19 and if C were to replace B, the average would be 21. What are the ages of A, B and C?

- (a) 22, 18, 20
- (b) 18, 22, 20
- (c) 22, 20, 18
- (d) 18, 20, 22
- (e) None of these

**Q74.** In an examination a student who gets 20% of the maximum marks fails by 5 marks. Another student who scores 30% of the maximum marks gets 20 marks more than the pass marks. The necessary percentage required for passing is

- (a) 32%
- (b) 23%
- (c) 22%
- (d) 20%
- (e) None of these

**Q75.** A trader bought two horses for Rs 19,500. He sold one at a loss of 20% and the other at a profit of 15%. If the selling price of each horse is the same, then their cost prices are respectively?

- (a) 10,000 and 9,500
- (b) 11,500 and 8,000
- (c) 12,000 and 7,500
- (d) 10,500 and 9,000
- (e) None of these

**Q76.** Aditya and Anshuman started a business and invested Rs. 52,500 and Rs. 75,000 respectively. At the end of year they decided to distribute 50% of profit equally among them and remaining in capital ratio. Had they distributed entire profit in capital ratio, Aditya got Rs. 2,250 less. Find the total profit amount.

- (a) Rs. 46,000
- (b) Rs. 51,000
- (c) Rs. 49,000
- (d) Rs. 51,650
- (e) None of these

**Q77.** Weights of two men Ritesh and Kaushik are in the ratio of 4 : 5. Ritesh's weight increases by 10% and the total weight of Ritesh and Kaushik together becomes 82.8 kg, with an increase of 15%. By what percent did the weight of Kaushik increase?

- (a) 18%
- (b) 21%
- (c) 19%
- (d) 20%
- (e) 23%

**Q78.** A person started his journey in the morning. At 11 am he covered  $\frac{3}{8}$  of his journey and on the same day at 4 : 30 pm he covered  $\frac{5}{6}$  of the journey. At what time did he start his journey?

- (a) 6 am
- (b) 5 : 30 am
- (c) 7 am
- (d) 6 : 30 am
- (e) None of these

**Q79.** Vessels A and B contain mixture of milk and water in the ratios 4 : 5 and 5 : 1 respectively. In what ratio should quantities of mixtures be taken from A and B to form a mixture in which milk to water is in the ratio 5 : 4?

- (a) 2 : 5
- (b) 4 : 3
- (c) 5 : 2
- (d) 2 : 3
- (e) 3 : 4

**Q80.** A bag contains 6 red, 8 yellow and 4 green balls. 3 balls are drawn randomly. What is the probability that the balls drawn contain balls of different colours?

- (a)  $\frac{4}{17}$
- (b)  $\frac{3}{17}$
- (c)  $\frac{6}{17}$
- (d)  $\frac{8}{17}$
- (e) None of these



**IBPS RRB (PO+CLERK)**  
COMBO

**170 TOTAL TESTS**

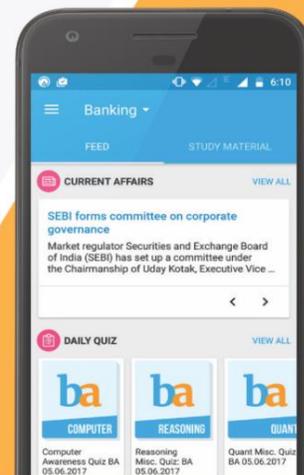
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