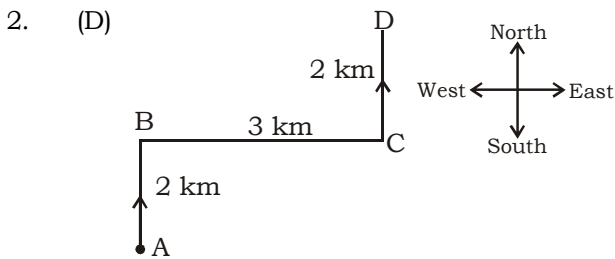


RRB MOCK TEST-7 (Solution)

1. (B) 3 4 5 6 and 1 5 5 2 6
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 R O P E A P P L E
 Similarly,
 5 4 6 1 3
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 P O E A R

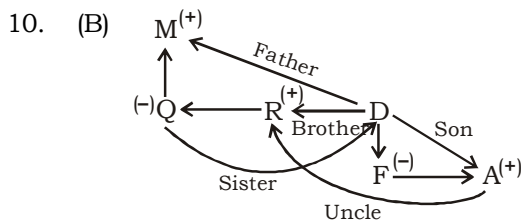


Hence, Now he is walking towards North.

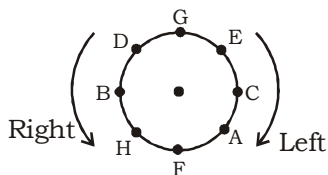
3. (B) $39 \times 23 \div 21 \times 5$
 After changing the sign
 $\Rightarrow 39 \div 21 - 23 + 5 = 67 - 21 = 46$

4. (A)
 5. (C) 5 4 7 20 79 394
 ×1-1 ×2-1 ×3-1 ×4-1 ×5-1

6. (D)
 7. (C)
 8. (A)
 9. (B) $20 = 6 + 4 + 8 + 2$
 $26 = 7 + 9 + 8 + 2$
 $25 = 6 + 5 + 12 + 2$



11. (D) A, B, C, D, E, F, G and H will be following position.



Situation of A will surely right on F.

12. (B) Solid Liquid Gas

- I. False
 II. True

13. (C) Yellow Key Red

- I. Doubt
 II. Doubt or

14. (B) Dog Deer Lion

- I. False
 II. True

15. (A) $(27 + 2) - 13 = 16$ (1st Row)
 $(37 + 2) - 23 = 16$ (2nd Row)
 $(91 + 2) - 45 = 48$ (3rd Row)
 16. (D) Clue is related to Mystery. Similarly, Warning is related to Danger.
 17. (B) Correct order of words
 Advertisement → Application → Exam → Interview → Selection → Appointment

18. (B) $72 \times 54 = F$
 +
 6 ← Place value

and
 $59 \times 21 = J$
 +
 10 ← Place value

Similarly,
 $65 \times 28 = M$
 +
 13 ← Place value

19. (A) 5th letter from left end of Alphabate = E and 12th letter from right of E = $5 + 12 = 17$ th letter = Q
 20. (C) m o p n , m o p n, m o p n, m o p n
 21. (B)
 22. (C)
 23. (D) ATQ,

$C > A > B = D > E$
 Hence, D is shorter than A.

24. (C) On 31st December, 2005 it was Saturday.
 Number of odd days from the year 2006 to the year 2009 = $(1 + 1 + 2 + 1) = 5$ days.
 On 31st December 2009, it was Thursday.
 Thus, on 1st Jan, 2010 it is Friday.

25. (D) Fruit is grow on tree but in question tree is called sky.

Hence, Fruit is grow in sky

26. (A) Unit place of $81 \times 82 \times 83 \times \dots \times 89$
 = Unit place of $1 \times 2 \times 3 \times \dots \times 9$
 = Unit place of $362880 = 0$
 27. (B) If $\sqrt{2} = 1.4142$

$$\text{then, } \frac{1}{2} \left(\frac{\sqrt{2}-1}{\sqrt{2}+1} \right) = \frac{1}{2} \left(\frac{0.4142}{2.4142} \right)$$

$$= \frac{0.2071}{2.4142} = \frac{2071}{24142}$$

$$= 0.08578 \approx 0.086$$

28. (B) Let A, B and C are 1st, 2nd and 3rd numbers respectively.

ATQ,

$$A : B : C = 120 : 90 : 100$$

$$\text{Now, } (120 - 90) \rightarrow 180$$

$$120 \rightarrow \frac{180}{30} \times 120 = 720$$

29. (B) Diagonal of square = $\sqrt{2} \times \text{side}$

$$\therefore \text{Side of square} = \frac{a+b}{\sqrt{2}}$$

$$\therefore \text{Area of square} = \frac{a+b}{\sqrt{2}} \times \frac{a+b}{\sqrt{2}}$$

$$= \frac{1}{2} (a+b)^2$$

30. (C) \therefore All numbers between 200 and 400 which is divisible by 7 is 203, 204,, 392, 399.

$$\therefore \text{required sum} = \frac{29}{2} \times (203 + 399)$$

$$= \frac{29}{2} \times 602 = 8729$$

31. (D) Let CP = ₹ x.

$$SP = x + \frac{x}{4} = \frac{5x}{4}$$

$$CP = x + \frac{x}{5} = \frac{6x}{5}$$

$$SP = \frac{5x}{4} + 10$$

$$\therefore \text{Profit \%} = \frac{\frac{5x}{4} + 10 - \frac{6x}{5}}{\frac{6x}{5}} \times 100$$

$$\Rightarrow \frac{15}{2} \% = \frac{\frac{5x}{4} + 10 - \frac{6x}{5}}{\frac{6x}{5}} \times 100$$

$$\therefore x = ₹ 250$$

32. (C) Let 81 is divided by in the ratio of A : B : C

$$\therefore A : B : C = \frac{1}{3} : \frac{1}{6} : \frac{1}{7}$$

$$= 14 : 7 : 6$$

$$\text{Hence, 1st part} = \frac{14}{(14+7+6)} \times 81 = 42$$

33. (A) LCM of $\frac{2}{5}$, $\frac{3}{10}$ & $\frac{4}{15} = \frac{\text{LCM of } 2, 3 \text{ \& } 4}{\text{HCF of } 5, 10, 15}$

$$= \frac{12}{5} = 2\frac{2}{5}$$

34. (A) Original volume = $\frac{4}{3} \pi r^3$

When radius is double, then

$$\text{volume} = \frac{4}{3} \pi 8r^3 = \left(\frac{4}{3} \pi r^3 \right) \times 8$$

Therefore, volume becomes 8 times

35. (C) Diagonal of rectangle = 10 cm

One side of rectangle = 5 cm

$$\text{Now, } D^2 = B^2 + P^2$$

$$10^2 = B^2 + 5^2$$

$$B^2 = 100 - 25$$

$$B = \sqrt{75} \text{ cm}$$

Area of rectangle = $l \times b$

$$= 5 \times \sqrt{75} = 5 \times 5\sqrt{3} = 25\sqrt{3} \text{ cm}^2$$

36. (D) Let work is completed in x day.

$$\text{ATQ, } \frac{x}{24} + \frac{x}{30} + \frac{x-4}{40} = 1$$

$$\Rightarrow \frac{5x+4x+3x-12}{120} = 1$$

$$\Rightarrow 12x = 120 + 12 \Rightarrow x = 11 \text{ days.}$$

37. (D) Let the rate of interest per annum = R%

$$\therefore 2P = \frac{P \times R \times 30}{100} \Rightarrow \frac{20}{3} \% = 6\frac{2}{3} \%$$

38. (C) Let the numbers x and y.

$$\therefore x + y = 36 \quad \dots\dots(1)$$

$$\text{and } xy = 3 \times 105 = 315 \quad \dots\dots(2)$$

$$\therefore \frac{1}{x} + \frac{1}{y} = \frac{36}{315} = \frac{4}{35}$$

39. (D) Let the total number of studens in a class are x, then

ATQ,

$$\therefore x = \frac{2}{10}x + \frac{3}{5}x + 15 + 5$$

$$\Rightarrow x - \frac{4}{5}x = 20$$

$$\Rightarrow \frac{1}{5}x = 20$$

$$\therefore x = 5 \times 20 = 100$$

40. (D) Spped of first bus = $\frac{300 \times 2}{15}$ km/hr

$$\text{Speed of second bus} = \frac{450}{10} \text{ km/hr}$$

\therefore Required ratio of average spped

$$= \frac{300 \times 2}{15} : \frac{450}{10} = \frac{8}{9} = 8 : 9$$

41. (A) $222 - \left[\frac{1}{3} \text{ of } \{42 + (56 + \overline{-8+9})\} + 108 \right]$

$$= 222 - \left[\frac{1}{3} \times \{42 + (56 - 17)\} + 108 \right]$$

$$= 222 - \left[\frac{1}{3} \times \{42 + 39\} + 108 \right]$$

- $= 222 - \left[\frac{1}{3} \times 81 + 108 \right]$
 $= 222 - (27 + 108)$
 $= 222 - 135 = 87$
42. (C) Today total age of P and Q = $15 \times 2 + (5 + 5)$
 $= 30 + 10 = 40$ years
 Today total age of P, Q and R
 $= 3 \times 20 = 60$ years
 \therefore Today age of R = $(60 - 40) = 20$ years
 \therefore After 10 years age of R = $20 + 10 = 30$ years
43. (D) Let the average weight of another class = x kg
 Then, ATQ
 $28 = \frac{15 \times 32 + 20 \times x}{(15 + 20)}$
 $\Rightarrow x = \frac{980 - 480}{20} = 25$ kg
44. (D) Loss % = $\frac{20 - 15}{20} \times 100 = 25\%$
45. (B) Suppose the total number of books = x
 $\frac{x}{2} + \left(\frac{x}{2} \times \frac{3}{4} \right) + 150 = x$
 $\Rightarrow \frac{x}{2} + \frac{3x}{8} + \frac{150}{1} = x$
 $\Rightarrow \frac{4x + 3x + 1200}{8} = x$
 $\Rightarrow 8x - 7x = 1200$
 $\Rightarrow x = 1200$
46. (D) $\frac{10}{3}$ m/second
 $= \left(\frac{10}{3} \times \frac{18}{5} \right) \text{ kmph} = 12$ kmph
47. (A) Relative speed of train
 $= (25 + 2) \text{ kmph} = 27$ kmph
 Distance covered by train in crossing the man = 270 m
 Now, 27 kmph
- $= 27 \times \frac{5}{18} \text{ m/sec} = \frac{15}{2} \text{ m/sec}$
 \therefore Required time = $\frac{270}{\frac{15}{2}} = \frac{270 \times 2}{15}$
 $= 36$ seconds
48. (D) Number of teachers in University C
 $= \frac{19 \times 6400}{100} = 1216$
 Number of female teachers in University
 $C = 1216 \times \frac{25}{100} = 1216 \times \frac{1}{4} = 304$
 Number of male teachers in University C
 $= 1216 - 304 = 912$
49. (C) Number of teacher in University B
 $= \frac{17 \times 6400}{100} = 1088$
 Number of teachers in University D
 $= \frac{6 \times 6400}{100} = 384$
 Number of teachers in University E
 $= \frac{29 \times 6400}{100} = 1856$
 \therefore Required percentage = $\frac{1088}{1856 + 384} \times 100$
 $= \frac{108800}{2240} = 48.57 \approx 49\%$
50. (D) Average = $\frac{704 + 1216 + 384 + 1152}{4}$
 $= \frac{3456}{4} = 864$



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RRB MOCK TEST - 7 (ANSWER KEY)

- | | | | |
|---------|---------|---------|----------|
| 1. (B) | 26. (A) | 51. (A) | 76. (B) |
| 2. (D) | 27. (B) | 52. (B) | 77. (A) |
| 3. (B) | 28. (B) | 53. (B) | 78. (A) |
| 4. (A) | 29. (B) | 54. (C) | 79. (D) |
| 5. (C) | 30. (C) | 55. (A) | 80. (B) |
| 6. (D) | 31. (D) | 56. (B) | 81. (D) |
| 7. (C) | 32. (C) | 57. (A) | 82. (B) |
| 8. (A) | 33. (A) | 58. (D) | 83. (C) |
| 9. (B) | 34. (A) | 59. (C) | 84. (D) |
| 10. (B) | 35. (C) | 60. (C) | 85. (C) |
| 11. (D) | 36. (D) | 61. (C) | 86. (D) |
| 12. (B) | 37. (D) | 62. (D) | 87. (B) |
| 13. (C) | 38. (C) | 63. (D) | 88. (A) |
| 14. (B) | 39. (D) | 64. (A) | 89. (A) |
| 15. (A) | 40. (D) | 65. (A) | 90. (C) |
| 16. (D) | 41. (A) | 66. (B) | 91. (A) |
| 17. (B) | 42. (C) | 67. (C) | 92. (B) |
| 18. (B) | 43. (D) | 68. (B) | 93. (C) |
| 19. (A) | 44. (D) | 69. (A) | 94. (C) |
| 20. (C) | 45. (B) | 70. (C) | 95. (D) |
| 21. (B) | 46. (D) | 71. (D) | 96. (A) |
| 22. (C) | 47. (A) | 72. (A) | 97. (B) |
| 23. (D) | 48. (D) | 73. (B) | 98. (A) |
| 24. (C) | 49. (C) | 74. (D) | 99. (B) |
| 25. (D) | 50. (D) | 75. (C) | 100. (B) |