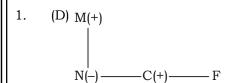
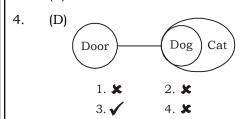
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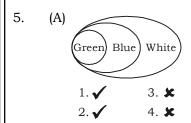
2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

RRB MOCK TEST-1 (Solution)

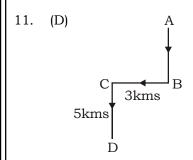


- 2. (C) Wood is the odd one out because it is a material used to make table, chair and cupboard.
- 3. (B)





- 6. (A)
- 7. (A) The new letter sequence is E C N A B R U T S I D. Clearly, S comes after T
- 8. (A) Each letter of the word is moved four step back to decode it. So GEORGE will be CAKNCA
- 9. (C) Number of persons between Amrita and Mukul = 50 (10 + 25) = 15. Since Mamta lies in middle of these 15 persons, so Mamta's position is 8th from Amrita i.e. 18th from the front.
- 10. (C)



Hence required direction is South-West.

12. (A) This is a simple subtraction series.

Each number is 35 less than the previous number.

- 13. (C) Sudhir

 Daughter
 -in-Law

 Seema Ramesh Mohan

 Sister Only one
 -in-Law brother
- 14. (D)
- 15. (D)
- 16. (B) All except Eagle are flightless birds.
- 17. (C) Given Number 7 <u>3 4</u> 6 2 8 5 Ascending Order - 2 <u>3 4</u> 5 6 7 8
- 18. (C) (12 + 18 + 30)/10 = 6, (16 + 24 + 40)/10 = 8, Similarly, (45 + 18 + 27)/10 = 9.
- 19. (C) As Ornithologist is a specialist of Birds. Similarly, Archealogist is a specialist of Archealogy.
- 20. (C) The correct order is :Key, Lock, Door, Room, Switch on i,e 1, 3, 2, 4, 5.
- 21. (A) Required sum = $(80 3 \times 3)$ years = (80 9) years = 71 years.
- 22. (A) The pattern is -45, -35, -25,So, missing term = 20 15 = 5.
- 23. (A) NOPQRSTUVWXYZMLKJIHG FEDCBA.
 - \Box required answer is (16 + 5) = 21th letter from your right is S.
- 24. (A) The fig. (X) is similar to the **Form I**. So, when the sheet shown in fig. (X) is folded to form a cube then one of the two half-shaded faces lies opposite to one of the blank faces and the other half-shaded face lies opposite to another blank face. The two remaining blank faces lie opposite to each other. Thus, both the cubes shown in figures (1) and (4) can be formed when the sheet shown in fig. (X) is folded. Also, though the cubes shown in figures (2) and (3) have faces that can appear adjacent to each other but the cube formed by folding the sheet in fig. (X) cannot be rotated to form either of the two. Hence, the cubes in figures (2) and (3) cannot be
- 25. (A) By analysing the word LOGICAL, we can observe the logic used to code is

G O Ι +2 +2 -2 -2 -2 +2 +1Ν Q I J Y J

Similarly by applying the same logic we can code FINANCE as HKPBLAC.

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(C) Let the income of the family = ₹ 100 26.

∴ Expenditure on food = $100 \times \frac{25}{100} = ₹25$

After increase of 20% income

=
$$100 \times \frac{120}{100} = ₹ 120$$

According to the question, Expenditure is same in both cases.

∴ % expenditure =
$$\frac{25}{120}$$
 × 100 = $\frac{250}{12}$

% expenditure = 20.833%

% decrease in expenditure = 25 - 20.833 =4.16%

for 2 yrs. S.I. =
$$\frac{15600 \times 10 \times 2}{100}$$
 = ₹ 3120

After 2nd yr. P = ₹ (15600 + 3120) = ₹ 18720

R = 10%

For 2yr., S.I. =
$$\frac{18720 \times 10 \times 2}{100}$$
 = ₹ 3744

Required amount = ₹ (3120 + 3744) = ₹ 6864

28. (C) Distance covered 4:3:2Fair per km 1:2:4Total fair = 4:6:8

Train fair =
$$\frac{2}{2+3+4} \times 720$$

$$=\frac{2}{9} \times 720 = 7160$$

29. (B)
$$20\% = \frac{1}{5}$$

Salesman A		;	Salesman B
$CP \longrightarrow$	5_{*5}	:	4_{*6}
$SP \longrightarrow$	6_{x_5}	:	5_{*6}
Profit →	+1 _{×5}	:	+1 _{×6}
	5	:	6
		1 unit	

1 unit = ₹
$$\frac{3000}{30}$$
 = ₹ 100

Difference = 1 × 100 = ₹ 100

30. (B) Ist tap
$$\rightarrow$$
 5 4

IInd tap \rightarrow 20 1

Total capacity of tank

Time taken by both the taps to fill the tank

$$=\frac{20}{5}$$
 = 4 hours

According to question,

When leak is open then total time = (4 + 1)= 5 hours

$$I + II \rightarrow 4 \qquad 5$$

$$I + II + IIIrd \rightarrow 5 \qquad 4$$

$$\downarrow \downarrow \qquad \qquad \downarrow$$

Time taken by leak to empty the tank = $\frac{20}{1}$

= 20 hours

31. (A) Expression

$$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + \sqrt{169}}}}}$$

$$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + 13}}}}$$

$$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{121}}}}$$

$$= \sqrt{8 + \sqrt{57 + \sqrt{38 + 11}}}$$

$$=\sqrt{8+\sqrt{57+\sqrt{49}}}$$

$$= \sqrt{8 + \sqrt{57 + 7}} = \sqrt{8 + \sqrt{64}}$$

$$=\sqrt{8+8}=\sqrt{16}=4$$

(A) Taking LCM of 8, 5, 3 and 2 i.e. 120. than, multiplying every fraction by 120.

$$\frac{3}{8} \times 120, \frac{3}{5} \times 120, \frac{2}{3} \times 120, \frac{1}{2} \times 120$$
 $\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$
 $45 \qquad 72 \qquad 80 \qquad 60$
 $80 > 72 > 60 > 45$

80 i.e. $\frac{2}{3}$ is largest

33. (D)
$$\frac{\text{curved surface of cylinder}}{\text{curved surface of cone}} = \frac{8}{5}$$

$$\Rightarrow \frac{2\pi rh}{\pi r\sqrt{h^2+r^2}} = \frac{8}{5}$$

$$\Rightarrow \frac{h}{\sqrt{h^2 + r^2}} = \frac{4}{5}$$

On squaring both sides,

$$\frac{h^2}{h^2 + r^2} = \frac{16}{25} \Rightarrow \frac{h^2 + r^2}{h^2} = \frac{25}{16}$$

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$$\Rightarrow 1 + \frac{r^2}{h^2} = \frac{25}{16} \Rightarrow \frac{r^2}{h^2} = \frac{25}{16} - 1 = \frac{9}{16}$$

$$\therefore \frac{r}{h} = \frac{3}{4}$$

34. (C) According to the question,

Man: Woman: Girl

Efficiency \rightarrow 6 3 money received by (woman + girl)

$$= \frac{10000}{10} \times 4$$

- = ₹ 4000
- 35. (D) Since 90% of the total votes have been polled.

So, Let total votes A + B + C = 100%(total vote polled i.e. 90% of the total votes) According to the question :-

$$A - C = 18,000$$

But A =
$$\frac{3}{2}$$
 B

$$B-C=5\%$$

So,
$$B = 5\% + C$$

and A =
$$\frac{3}{2}$$
B = $\frac{3}{2}$ (5% + C)

Now
$$A + B + C = 100\%$$

$$\frac{3}{2}(5\% + C) + 5\% + C + C = 100\%$$

after solving

- \Rightarrow C = 25%
- \Rightarrow B = 30%
- \Rightarrow A = 45%

Again A - C = 18,000

20% = 18,000

Total votes polled 100% = 90,000Hence,

Total votes = $\frac{10}{9}$ × 90,000 = 1,00,000

36. (C) Let the quantities of A & B are 4x and xrespectively.

According to question

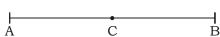
$$\frac{4x - 10 \times \frac{4}{5}}{x + 10 \times \frac{4}{5}} = \frac{2}{3}$$

$$\Rightarrow \frac{4x-8}{x+8} = \frac{2}{3}$$

$$\Rightarrow x = 4$$

So, quantity of liquid A in the jar $= 4 \times 4 = 16$ litre

37. (A) **►**



 $Car 1 \rightarrow 10 \text{ km/h}$

 $|Car 2| \rightarrow 8 \text{ km/hr} + 8.5 \text{ km/h} + 9 \text{ km/h} \dots$

Ist hour IInd hour +

Let A is a point from where both the cars are moving toward the destination B, and C is a point where the car 2 overtakes the

Let after t hours the second car overtake the first car.

then equate the distance because both have travelled the same distance.

Distance covered by car 1 = distance covered by car 2

$$10t = \frac{t}{2}[2 \times 8 + (t-1)\frac{1}{2}]$$

$$20 = 16 + \frac{t-1}{2}$$

 $t-1=8 \Rightarrow t=9 \text{ hours}$

Distance covered by the first car in 9 hours $= 9 \times 10 = 90 \text{ km}$

So after 90 km the second car will overtake the first car.

(A) C.I. for 2 years at 8% = 16.64%Amount = ₹ 5832 = 116.64%

Principal =
$$\frac{5832}{116.64}$$
 × 100 = ₹ 5000

39. (B) Let the amount be $\stackrel{?}{\scriptstyle{\sim}} x$... According to question,

$$\frac{8}{3}x - \frac{3}{8}x = 55$$

$$\Rightarrow \frac{64x - 9x}{24} = 55$$

$$\Rightarrow \frac{55x}{24} = 55 \text{ or, } x = ₹ 24$$

(B) Relative speed = 63 - 3 = 60 km/hr

$$\therefore \text{ Required time} = \frac{500 \times 18}{60 \times 5} = 30 \text{ sec}$$

(D) First number × Second number = HCF \times LCM

 \Rightarrow 75 × Second number

$$= \frac{15 \times 225}{75} = 45$$

 $= 15 \times 225$

(A) Area of path = x(l + b - x)= 5(60 + 40 - 5)

∴ Total cost =
$$475 \times \frac{60}{100} = ₹285$$

(A) A single discount equal to the two successive discounts

$$= \left(10 + 5 - \frac{10 \times 5}{100}\right)\% = 14.5\%$$

: Selling price of the article = 85.5% of ₹ 240

$$= ₹ \frac{85.5 \times 240}{100} = ₹ 205.20$$

(C) 101 + 102 + 103 + ... + 200 $S = (100 + 1) + (100 + 2) + (100 + 3) + \dots$ +(100 + 100)

Thus, it consists of 100 terms.

- $= (100 + 100 + 100 + \dots 100 \text{ times}) + (1 + 2)$
- + 3 + + 100)
- $= (100 \times 100) + (1 + 2 + 3 + \dots + 100)$

$$= 10000 + \frac{100 \times (100 + 1)}{2}$$

- = 10000 + 5050 = 15050
- 45. (A) CP = $\frac{2400}{(100+25)}$ × 100 = ₹ 1920

% profit =
$$\frac{120}{1920} \times 100 = 6.25\%$$

46. (D) Sita's current age is $\frac{6}{5}$ times of her age

at the time of her marriage which means her current age is 6 units and her age at the time of marrage was 5 units. But she got married 6 years ago which means 1 unit is equal to 6 years so her current age is 36

years and her son's age is $\frac{1}{12}$ of her current

age i.e. 3 years.

(B) ∴ ABCD is a cyclic quadrilateral.

$$\therefore \angle C + \angle D = 180^{\circ}$$

$$\Rightarrow$$
 \angle D = 180° – 48° = 132°

48. (D) Let the amounts invested in 2014 in companies P and Q be Rs. 8x and Rs. 9x respectively.

> Then, interest received after one year from Company P

$$=$$
₹ (6% of 8 x) $=$ ₹ $\frac{48}{100}$ x

and interest after one year from Company Q

= ₹(4% of 9x) = ₹
$$\frac{36}{100}$$
 x.

$$\therefore \text{ Required ratio} = \left(\frac{\frac{48}{100}x}{\frac{36}{100}x}\right) = \frac{4}{3},$$

49. (D) Let ξ x lakes be invested in Company P in 2012, then amount invested in Company Q in 2012 = ₹ (30 - x) lakhs. Total interest from the two Companies after 1 year

= ₹
$$[(7.5\% \text{ of } x) + (9\% \text{ of } (30 - x))]$$
 lakhs

$$\therefore \left[27 - \left(\frac{1.5x}{100} \right) \right] = 2.43 \Rightarrow x = 18.$$

i.e., amount invested in Company P = ₹18 lakhs.

- Difference = ₹ [(10% of 4.75) (8% of 50. (D) 4.75)] lakhs.
 - = ₹ (2% of 4.75) lakhs = ₹ 0.095 lakhs = ₹ 9500



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RRB MOCK TEST-1 (ANSWER KEY)

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(D) 2. (C) 3. (B) 4. (D) 5. (A) 6. (A) 7. (A) 8. (A) 9. (C) 10. (C) 11. (D) 12. (A) 13. (C) 14. (D) 15. (D) 16. (B) 17. (C) 18. (C) 19. (C) 20. (C) 21. (A) 22. (A) 23. (A) 24. (A)

25.

(A)

26. (C) 27. (D) 28. (C) 29. (B) 30. (B) 31. (A) 32. (A) 33. (D) 34. (C) 35. (D) 36. (C) 37. (A) 38. (A) 39. (B) 40. (B) 41. (D) 42. (A) 43. (A) 44. (C) 45. (A) 46. (D) 47. (B) 48. (D) 49. (D) 50. (D) 51. (B) 52. (A) 53. (B) 54. (A) 55. (B) 56. (D) 57. (A) 58. (C) 59. (A) 60. (A) 61. (B) 62. (B) 63. (C) 64. (D) 65. (B) 66. (A) 67. (D) 68. (B) 69. (D) 70. (C) 71. (A) 72. (A) 73. (B) 74. (C) 75. (B)

76. (A) 77. (D) 78. (B) 79. (B) 80. (D) 81. (C) 82. (B) 83. (A) 84. (C) 85. (A) 86. (A) 87. (D) 88. (B) 89. (A) 90. (D) 91. (A) 92. (A) 93. (C) 94. (D) 95. (A) 96. (C) 97. (B) 98. (D) 99. (B) 100. (B)