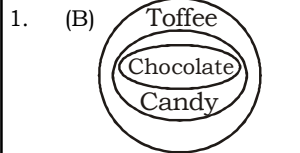


**RRB ALP CBT - 1**  
**Answers with Explanation-3**



2. (B) Chocolate Price

A	47
B	---
C	43/41
D	---
E	48/46
F	49
G	---

3. (B)  
4. (A) LCM + HCF = 369  
LCM - HCF = 351  
After solving:-  
LCM = 360  
HCF = 9  
Second Number × 72 = 360 × 9  
Second Number = 45

5. (B) 80% of the bowlers in the team were spinners. The batting team can take 6 wickets and the bowling team can take 2 or 3 spinners, hence we can take any number of spinners, hence we cannot say anything about the number of spinner players.

6. (C)  
7. (A)

8. (D)  $62 \div 5 - \left(\frac{8}{9} \times \frac{18}{7}\right) \times \frac{7}{5} + \frac{5}{4} \times \frac{16}{25}$

$$\frac{62}{5} - \frac{16}{7} \times \frac{7}{5} + \frac{4}{5}$$

$$\frac{66}{5} - \frac{16}{5} = 10$$

9. (C) 

T	I	R	E	D
+2↓	-3↓	↓	+2↓	-3↓
V	F	I	G	A

  
→ Complementary pair

B	R	E	A	D
+2↓	-3↓	↓	+2↓	-3↓
D	O	V	C	A

Complementary pair is calculated as (27 - n), where 'n' is the position of alphabet counted from left to right.

10. (A) 3, 1, 2, 4, 5  
11. (A) As, mattress is spread on the cot. Similarly, tiles are spread on the floor.  
12. (C) As,

M	O	T	H	E	R
-3↓	+3↓	-3↓	+3↓	-3↓	+3↓
J	R	Q	K	B	U

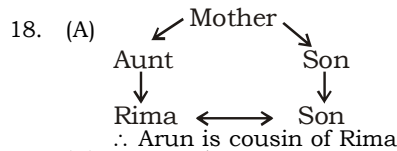
Similarly,  

P	R	I	N	C	I	P	A	L
-3↓	+3↓	-3↓	+3↓	-3↓	+3↓	-3↓	+3↓	-3↓
M	U	F	Q	Z	L	M	D	I

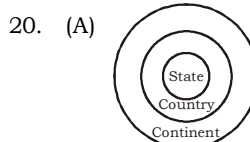
13. (A) As,  
A = 1, O A R  
15 + 1 + 18 = 34  
Similarly,

R O A R  
18 + 15 + 1 + 18 = 52  
49 - 7 + 38 ÷ 42 × 3  
After interchanging signs as per given details.  
49 ÷ 7 × 38 - 42 + 3 = 227

15. (A) HIVE  
16. (D)  $84 \times 4 - 9 \div 143 \neq 46$   
 $84 \times 4 \div 9 - 143 \neq 46$   
 $84 + 4 - 9 \div 143 \neq 46$   
 $84 \div 4 \times 9 - 143 = 46$   
17. (D)  $88 \frac{11}{12} \frac{12}{76} = 172$   
 $88 \times 11 - 12 \div 76 = 172$   
 $88 + 11 \div 12 - 76 = 172$   
 $88 + 11 - 12 \div 76 = 172$   
 $88 \div 11 \times 12 = 76 = 172$

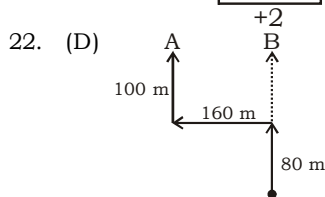


19. (B)  $42 - 6 + 7 \times 9 \div 42$   
After interchanging signs as per given details.  
 $42 \div 6 \times 7 + 9 - 42$   
 $= 49 + 91 - 42$   
 $= 16$



21. (D) As,  
ETHANOL → HWKDQRO  
+2

Similarly,  
MIX → PLA  
+2

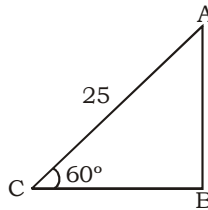


∴ B is 160 m East of A.

23. (B) Let the numbers be 4x, 5x and 7x.  
ATQ,  
 $2(4x + 5x + 7x) = 160$   
 $\Rightarrow x = \frac{160}{32} = 5$   
Largest number = 7 × 5 = 35  
∴ Required value = 35 × 35 = 1225

24. (B)  $CI = P \left[ \left( 1 + \frac{r}{100} \right)^2 - 1 \right]$   
 $CI = 64000 \left[ \left( 1 + \frac{25}{100} \right)^2 - 1 \right] = ₹36000$

25. (A)



$$\sin 60^\circ = \frac{AB}{AC} \Rightarrow \frac{\sqrt{3}}{2} = \frac{AB}{25}$$

$$\therefore AB = \frac{25\sqrt{3}}{2} \text{ m.}$$

26. (A) Let the length of cloth be 'x' is ATQ,

$$35 = (x + 4) \left( \frac{35}{x} - 1 \right)$$

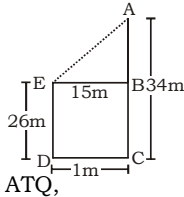
$$\Rightarrow 35x = 35x + 140 - x^2 - 4x$$

$$\Rightarrow x^2 + 4x - 140 = 0$$

$$\Rightarrow x = 10, -14$$

$\therefore$  Length of cloth is 10 metre

27. (C)



$$EA = \sqrt{EB^2 + AB^2}$$

$$= \sqrt{15^2 + (34-26)^2} \quad EA = 17\text{m}$$

28. (B) Required speed =  $\frac{2 \times S_1 \times S_2}{S_1 + S_2}$

$$= \frac{2 \times 60 \times 50}{50 + 60} = 55.55 \text{ km/h}$$

29. (B)

30. (C) Let the three numbers be x, y and z.  
A.T.Q.,

$$\frac{x}{2} = \frac{y}{3} = \frac{z}{6} \dots (i)$$

From eq. (i)

$$y = 3x/2 \text{ and } z = 3x$$

$$x + y + z = 3740$$

$$x + 3x/2 + 3x = 3740$$

$$x = 680, y = 1020, z = 2040$$

31. (A)  $\left( 80 + \frac{3}{2} \times 50 \right) \times 98 \div 7 - 193 = x$

$$\Rightarrow 155 \times 14 - 193 = x$$

$$\Rightarrow x = 1977$$

32. (B) A + B + C  $\rightarrow$  6  
A  $\rightarrow$  10  
B  $\rightarrow$  24  
Efficiency of C = 20 - 12 - 5 = 3

$$\therefore \text{Required days} = \frac{120}{3} = 40 \text{ days}$$

33. (A) S.P. =  $640 \times \frac{90}{100} = \text{Rs. } 576$

$$\text{C.P.} = 567 \times \frac{5}{6} = 96 \times 5 = \text{`}480$$

34. (B) Let the marked price be 'x'.

$$x \times \left( \frac{100 - 20}{100} \right) \times \left( \frac{100 - 15}{100} \right) = 1275$$

$$\Rightarrow x \times \frac{4}{5} \times \frac{85}{100} = 1275$$

$$\Rightarrow x = \text{`}1875$$

35. (A) C.P. = `1800

$$\text{S.P.} = 1800 \times \frac{11}{10} = \text{`}1980$$

Increase in profit

$$= \frac{2070 - 1980}{1800} = \frac{90}{1800} \times 100 = 5\%$$

36. (C)  $\left( \frac{3}{7} + \frac{8}{3} \right) + \left( \frac{9}{7} + \frac{16}{3} \right)$

$$= \left( \frac{9 + 56}{21} \right) + \left( \frac{27 + 114}{21} \right) = \left( \frac{65}{21} + \frac{141}{21} \right) = \frac{206}{21}$$

37. (B) Ascending order-31, 53, 55, 56, 59, 61, 69,  
median = 56

38. (A) Company A  $\rightarrow$  100 + 118 + 143 + 126 + 152 + 195 = 844

$$\text{Company C} \rightarrow 103 + 153 + 100 + 128 + 96 + 56 = 636$$

$$\text{Company D} \rightarrow 112 + 166 + 78 + 83 + 135 + 198 = 772$$

$$\text{Company E} \rightarrow 72 + 169 + 154 + 98 + 140 + 192 = 825$$

39. (D) Average =  $(152 + 69 + 96 + 135 + 140 + 176) \div 6$

$$= \frac{768}{6} = 128 \text{ crore}$$

40. (D)  $7x - \frac{3}{2} \times (4x - 9) = 6.5$

$$\Rightarrow 7x - 6x + \frac{27}{2} = 6.5 \Rightarrow x = 6.5 - 13.5 = -7$$

**RRB ALP - 03 (ANSWER KEY)**

- |         |         |         |         |
|---------|---------|---------|---------|
| 1. (B)  | 20. (A) | 39. (D) | 58. (B) |
| 2. (B)  | 21. (D) | 40. (D) | 59. (B) |
| 3. (B)  | 22. (D) | 41. (B) | 60. (B) |
| 4. (A)  | 23. (B) | 42. (D) | 61. (D) |
| 5. (B)  | 24. (B) | 43. (B) | 62. (A) |
| 6. (C)  | 25. (A) | 44. (B) | 63. (C) |
| 7. (A)  | 26. (A) | 45. (B) | 64. (B) |
| 8. (D)  | 27. (C) | 46. (A) | 65. (D) |
| 9. (C)  | 28. (B) | 47. (B) | 66. (B) |
| 10. (A) | 29. (B) | 48. (C) | 67. (C) |
| 11. (A) | 30. (C) | 49. (B) | 68. (C) |
| 12. (C) | 31. (A) | 50. (B) | 69. (D) |
| 13. (A) | 32. (B) | 51. (A) | 70. (A) |
| 14. (C) | 33. (A) | 52. (A) | 71. (A) |
| 15. (A) | 34. (B) | 53. (D) | 72. (D) |
| 16. (D) | 35. (A) | 54. (B) | 73. (B) |
| 17. (D) | 36. (C) | 55. (B) | 74. (B) |
| 18. (A) | 37. (B) | 56. (A) | 75. (B) |
| 19. (B) | 38. (A) | 57. (B) |         |