

RRB GROUP D - SPEED TEST - 20

3. (A)  $279 + 4 [9 + 54 + 645]$   
 $= 279 + 4 (708)$   
 $= 279 + 2832$   
 $= 3111$

4. (C)  $N = \frac{(\sqrt{6} - \sqrt{5})}{(\sqrt{6} + \sqrt{5})} = \frac{(\sqrt{6} - \sqrt{5})^2}{(\sqrt{6})^2 - (\sqrt{5})^2}$   
 $= \frac{6 + 5 - 2\sqrt{30}}{6 - 5}$   
 $= 11 - 2\sqrt{30}$

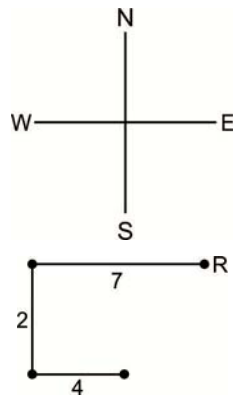
9. (D)  $(5 + 4) \times 2 = 18$   
 $(6 + 3) \times 3 = 27$   
 $(12 + 4) \times 6 = 96$

10. (D) Because there no double 'L' in the given word so, 'Liberal' is not formed.

11. (C) G (+2) J (+2) M  
P (+2) S (+2) V  
M (+2) P (+1) R

12. (A) India is a country and all other are not.

13. (B)



South west

14. (A) Directly from the option A

$8 + 9 = 17$   
when a added  $89 + 9 = 98$   
which is reverse of that number.

15. (C)  $\Rightarrow \cos (\theta + 31^\circ) = \sin 47^\circ$   
 $\Rightarrow \cos (\theta + 31^\circ) = \sin (90 - 43)$   
 $\Rightarrow \cos (\theta + 31) = \cos 43$   
 $\Rightarrow \theta + 31 = 43$

$\Rightarrow \theta = R$   
 $\Rightarrow \sin 5\theta = \sin (5 \times 12)$   
 $\Rightarrow \sin 60^\circ = \frac{\sqrt{3}}{2}$

20. (B) Player = Team  
Ship = Fleet

21. (D)

22. (D)

23. (B)  $1 \leftrightarrow 5$   
 $3 \leftrightarrow 3$   
 $2 \leftrightarrow 4$

24. (C)

28. (D)  $3 \times 8 \times 2 = 832$   
 $6 \times 4 \times 1 = 461$

29. (D) Total marks of 11 result =  $11 \times 60 = 660$   
first six result sum =  $6 \times 59 = 354$   
last six results sum =  $6 \times 62 = 372$   
sum of 12 results =  $354 + 372 = 726$   
6th result =  $726 - 660 = 66$

30. (D) Let principle = 100  
S.I. = 100  
According to Question

$100 = \frac{100 \times 5 \times R}{100}$

$R = 20\%$

31. (B) curved surface area  
 $= 2\pi rh$

$$= 2 \times \frac{22}{7} \times 14 \times 10$$

$$= 880 \text{ cm}^2$$

32. (B) Required S.P. = 540x

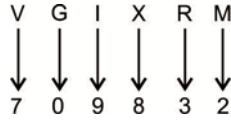
$$= \frac{(100+60)}{100} \times \frac{(100-25)}{100}$$

$$= 648$$

41. (A)



42. (C)



43. (C) D C E D

44. (B) there are seven triangles.

45. (A)

46. (B)

52. (B) x = 9, y = 2

According to question

$$\Rightarrow \frac{9}{2} - x = \frac{9-2}{2} = \frac{7}{2}$$

53. (C) Let the wealth of B = 7x

$$\text{then wealth of A} = \frac{5}{7} \times 7x = 5x$$

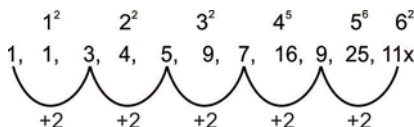
$$\text{Wealth of C} = \frac{10}{7} \times 7x = 10x$$

Ratio of C wealth to A Wealth

$$= 10x : 5x = 2 : 1$$

59. (D)

60. (B)



$$= 36$$

61. (A)  $0.25 \times 4 + 4 = 5$

$$5 \times 5 + 5 = 30$$

$$30 \times 6 + 6 = 186$$

$$186 \times 7 + 7 = 1309$$

$$1309 \times 8 + 8 = 10480$$

62. (C) Neither of the conclusion follows.

63. (D)  $508 + 21 = 529$

$$\sqrt{529} = 23$$

64. (D)  $A \sin x + B \cos x$

$$\text{Max value} = \sqrt{(a^2 + b^2)}$$

Hence the maximum

value of  $24 \sin \theta + 7 \cos \theta$

$$= \sqrt{24^2 + 7^2} = 25$$

65. (D)

66. (A)

67. (A) Given that

$$4a = 44$$

$$a = 11$$

$$\text{Diagonal of Square} = \sqrt{2}a$$

$$= 11\sqrt{2}$$

68. (C) Dhan bad > Polamu > Bara Banki >

Fatehpur > Akbarpur.

71. (C) S.P =  $15 \times 8 \times 2 = 16$

$$\text{S.P} = 10 \times 6 \times 3 = 18$$

$$\text{Profit \%} = \frac{2}{10} \times 100 = 12.5\%$$

72. (A) A = 5, B = 3

According to Question

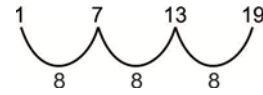
$$= \frac{A+B}{B} = \frac{5+3}{3} = \frac{8}{3}$$

73. (B) 3600 is divisible by 16, 20, 24.

74. (A) 25% - 6

$$100 - x$$

$$x = 24 \times \frac{150}{100} = 36$$



$$= 8 + 8 + 8 = 24 \text{ years}$$

**82. (D)** Percentage of syrup =  $\frac{3}{4} \times 100 = 75\%$

**98. (C)** = 2.005 km

**83. (B)**  $\Rightarrow 7 - 4 = 3$

$$\Rightarrow 3 \text{ cm}$$

**84. (D)** LCM of 10 and 13

$$= 130$$

$$\text{Now} = \frac{999}{130} \cong 7$$

**88. (A)** total work = 11

$$A + B \text{ work} = 7$$

$$\text{then C work} = 11 - 7 = 4$$

$$c' \text{ share} = \frac{4}{11} \times 55$$

$$= 200$$

**89. (B)** =  $20 \times 2 \times \frac{22}{7} \times \frac{35}{10}$

$$= 440$$

**90. (D)** we know that

$$4\pi R^2 = 154$$

$$4 \times \frac{22}{7} \times R^2 = 154$$

$$R^2 = \frac{49}{4} = \frac{7}{2}$$

$$R = \frac{7}{2} \quad 2R = \frac{7}{2} \times 2 = 7$$

**96. (B)**  $100 \times \frac{90}{100} \times \frac{80}{100} \times \frac{70}{100}$

$$= 50.4$$

$$\text{Net discount} = 100 - 50.4$$

$$= 49.6 \%$$

**97. (D)**

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## ANSWER KEY

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