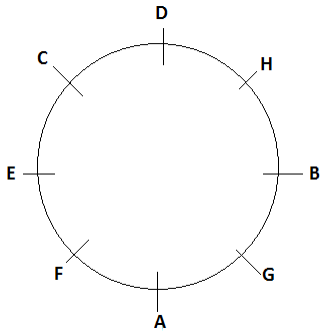
PRACTICE MOCK SOLUTION
REASONING APTITUTDE

Directions (1-5):

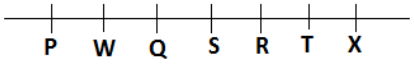
1. (1) Only conclusion I follows.
2. (4) Neither conclusion I nor II follows.
3. (2) Only conclusion II follows.
4. (2) Only conclusion II follows.
5. (2) Only conclusion II follows.

Directions (6-10):



6. (2)
7. (5)
8. (5)
9. (1)
10. (1)
11. (2) R
12. (3) Total number of children=26
13. (1) #2*3
14. (2) 3
15. (1) P

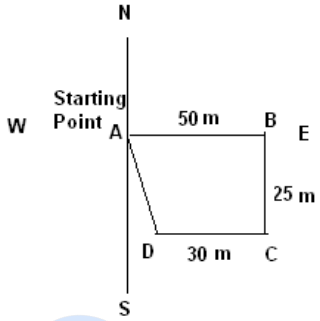
Directions (16-20):



16. (1)
17. (3)
18. (2)
19. (3)
20. (1)

Directions (21-23):

21. (5)
22. (3)
23. (4)
24. (5) The following changes will occur in order
C H E M I S T R Y
C E H I M R S T Y
D D I H N S T U Z
25. (2)



Directions (26-30):

26. (4)
After arrangement numbers are:
247, 459, 569, 347, 456
Second highest is 459 i.e. 549
27. (3) Numbers: 472 549 659 437 645
Interchange last two digits: 427 594 695 473 654
Subract two from frist digit: 227 394 495 273 454
Highest number is 495 i.e. 659
28. (5)
29. (1)
First digit of second highest number is '6' and third digit of second lowest number is "2".
their product = 6 × 2 = 12
30. (2)
On addition resulted are
13 18 20 14 15
Second highest is 18 i.e. 549.

Solutions (31-35):

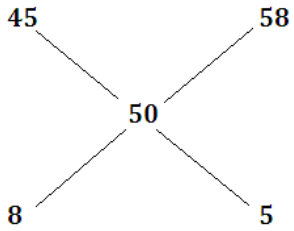
(i) fresh→sa (ii) take →ra
(iii) vegetables →l (iv) water →mi
(v) sweet→fi (vi) and / pure →nu / te
(vii) safe→ze

31. (4): mi →water
32. (5): pure →nu / te
33. (1): Take (ra) safe (ze) water (mi)
34. (4)
35. (3): te→and /pure

PRACTICE MOCK SOLUTION
NUMERICAL ABILITY

36. (2)
37. (5)
38. (3)
39. (3)
40. (1)
41. (3)

42. (2)
43. (2)
44. (1)
45. (3)
46. (2); $\frac{T+2T}{54\left(\frac{5}{18}\right)} = 15$
$\frac{3T\times18}{54\times5} = 15$, T=75
Required bridge length= $75 \times 2 = 150$
47. (4); (9-5) years= 6000-4000
1 years=500
5 years=2500
∴ P=4000-2500=1500
$R\% = \frac{500\times100}{1500} = 33\frac{1}{3}\%$
48. (3); CP=$55 \times \frac{100}{110} = 50$



Required ratio=8 : 5
49. (1); Required %= $\frac{25\times10}{(100+25)} = 20\%$
50. (3); $\frac{1}{20} + \frac{1}{60}$
$\frac{3+1}{60} = \frac{1}{15}$
Required days=15 days
51. (1); Let the number= $3x$ & $5x$
$\frac{2\times3x}{5x+20} = \frac{2}{3}$
$18x = 10x + 40$
$x = 5$
Required sum= $3x + 5x = 8x = 8 \times 5 = 40$
52. (4); Given Girls=1175
So, boys=2025-1175=850
Required Ratio=850 : 1175 =34:47
53. (3); 9%=540-432
1%=12
100%=1200
54. (1); Swati : Khyati
5 : 7 (Two years ago)
7 : 9 (Two years hence)
2=4
1=2
7=14
Present age of khyati=14+2=16 yr.
55. (5); Total weight of 60 students= $60 \times 40 = 2400$
Actual total weight of 60 students=2400-3=2397
ie Actual average of class= $\frac{2397}{60} = 39.95$
56. (3); perimeter of square= $\frac{1}{4}$ perimeter of rectangle
Perimeter of rectangle= $4 \times 44 = 176$
Side of square= $\frac{44}{4} = 11$ cm
2(l+b)=176
2(51+b)=176
b=37
Required difference =37-11=26
57. (2); Speed of truck : Speed of car
$\frac{360}{8}$: $\frac{360}{6}$
3 : 4
58. (2) S.I.= $\frac{31400\times8\times12}{100} = 30144$
Total amount=31400+30144=61544
59. (5) $\pi R^2 = 3580$
$R^2 = \frac{3580\times7}{22} = 1139.09$
R=33.750

So, $2\pi R = 2 \times \frac{22}{7} \times 33.750 = 212.14$
60. (3);$2\pi R = 220$
$R = \frac{110\times7}{22} = 35$
$l \times b = \pi r^2$
$l \times 50 = \frac{22}{7} \times 35 \times 35$
$l = 77$
61. (5) The subsequent terms are ×1+1 , ×2+2 , ×3+3 and so on of their previous terms.
62. (3) The difference between consecutive terms are 8, 20, 38, 62 and 92
And their differences are 12, 18, 24, 30 and so on.
63. (5) The difference between consecutive terms are prime numbers i.e. 2, 3, 5, 7 and so on.
64. (1) The difference between consecutive terms is 3, 6, 12, 24, 48 and so on.
65. (1) The terms are square of consecutive primes i.e. 13^2, 17^2, 19^2, 23^2 and so on.

66(5) Total quantity of food items consumed by Hotel C = 3409
Total quantity of food items consumed by Hotel E = 2915
Required percentage = $\frac{3409\times100}{2915}\%$
= 116.95%
= 117% (approx.)

67. (1)Quantity of sugar and coffee consumed by Hotel D
= 476 + 28
= 504
Quantity of sugar and coffee consumed by Hotel F
= 533 + 83 = 616
Required ratio = $\frac{504}{616} = 9:11$

68. (3) Quantity of the rice consumed by Hotel A = 800
Quantity of the rice consumed by all the hotels together
= 1098 + 960 + 890 + 764 + 698 + 800
= 5210
Required percentage

$= \frac{800}{5210} \times 100\% = 15\% \text{ (Aprox.)}$

69. (4) Average quantity of wheat consumed by all the hotels together

$= \frac{756+882+785+907+888+998}{6}$

$= \frac{5216}{6}$

Average quantity of vegetable consumed by all the hotels together

$= \frac{434+387+625+432+375+387}{6}$

$= \frac{2640}{6}$

Required $= \frac{5216}{6} : \frac{2640}{6}$

$= (326 \times 16) : (165 \times 16) = 326 : 165$

70. (2) Total consumption by Hotel A
= 480 + 434 + 436 + 120 + 68 + 800 + 756
= 3094
Total consumption by Hotel B
= 524 + 384 + 512 + 100 + 54 + 1098 + 882
= 3557
Total consumption by Hotel C
= 490 + 625 + 463 + 78 + 78 + 890 + 785
= 3409
Total consumption by Hotel D
= 387 + 432 + 476 + 94 + 28 + 960 + 907
= 3284
Total consumption by Hotel E
= 266 + 375 + 448 + 108 + 65 + 754 + 888
= 2915
Total consumption by Hotel F
= 342 + 387 + 533 + 114 + 83 + 698 + 998
= 3115

PRACTICE MOCK SOLUTION
ENGLISH LANGUAGE

71. (1); The wide ears
72. (4); They wished to recognise animals by their touch and feel.
73. (4); The elephant
74. (1); Only A
75. (2); Each of them thought he was right about the animal.
76. (3); That it was important to share knowledge and work together as a team
77. (1); **Convinced** means completely certain about something. So, Certain is the word which is similar in meaning to it.
78. (2); **Pool** means to accumulate. So, Gather is the word which is similar in meaning to it.
79. (2); **Consensus** means a general agreement. So, Disagreement is the word which is opposite in meaning to it.
80. (5); **Curious** means eager to know or learn something. So, Uninterested is the word which is opposite in meaning to it.
81. (3); Substitute '*guide to*' with '*guides*'.
82. (4); Substitute '*does*' with '*did*'.
83. (1); Substitute '*deplete*' with '*depletion*'.
84. (1); Substitute '*which*' with '*who*'.
85. (4); Replace *'than'* with *'as'*
86. (4); Right spelling is 'exception'.
87. (5); All correct
88. (4); Right spelling is 'mechanical'.
89. (3); Right spelling is 'speech'.
90. (1); Right spelling is 'coping'.

For question (91-95); The correct sequence to form a

92. (1); (A)
93. (5); (E)
94. (4); (D)
95. (2); (B)
96. (1)
97. (3)
98. (4)
99. (5)
100. (5)