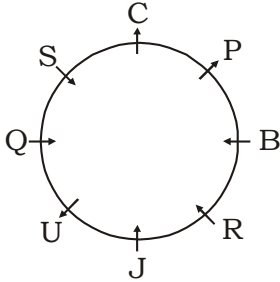


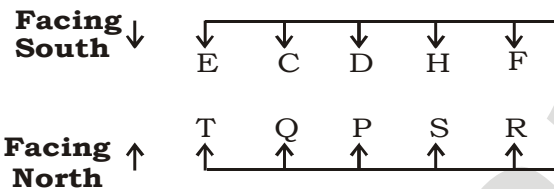
IBPS CLERK SPECIAL - I MOCK TEST - 296 (SOLUTION)

(1-5):



1. (3) 2. (2) 3. (1) 4. (1)
 5. (4)

(6-10):



6. (2) 7. (3) 8. (4) 9. (1)
 10. (1)

(11-16):

| Person | Day | School |
|--------|-----------|--------|
| Raju | Tuesday | C |
| Jyoti | Wednesday | D |
| Mohan | Thursday | A |
| Roshan | Saturday | F |
| Kiran | Sunday | G |
| Kamal | Monday | B |
| Tony | Friday | E |

11. (3) 12. (4) 13. (2) 14. 3
 15. (4) 16. (1)

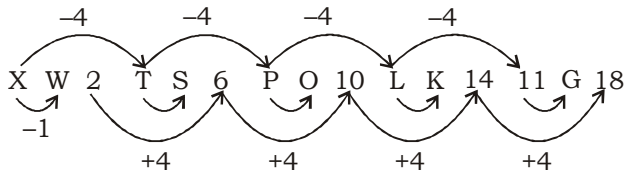
(17-19):

| Car 1 | Car 2 |
|------------|---------|
| C, A, F, G | E, B, D |

17. (1) 18. (4)
 19. (3)

| Car 1 | Car 2 |
|------------|---------|
| C, A, E, G | B, D, F |

20. (1) The letters move four places backward and each number is increased by 4 from its preceding number



21. (2) **Given statements:**

$$Z > P \geq T = N \quad \dots \text{(i)}$$

$$R = T < Q \leq S \quad \dots \text{(ii)}$$

Combining both state-ments, we get

$$Z > P \geq T = N = R = T < Q \leq S$$

Thus, $Z < Q$ is not true.

Again, $S > N$ is true.

And, $P \geq S$ is not true.

Hence, only II is true.

22. (3) **Given statements:**

$$S < U = R \leq N \quad \dots \text{(i)}$$

$$B > X \geq W \quad \dots \text{(ii)}$$

$$S > J = W \quad \dots \text{(iii)}$$

Combining all the statements, we get

$$N \geq R = U > S > J = W \leq X < B$$

Thus, $N > J$ is true.

Again, $B < S$ is not true. And, $U > J$ is true.

Hence, only I and III are true.

23. (5) **Given statements:**

$$X = Q \geq R \quad \dots \text{(i)}$$

$$M = N > P \quad \dots \text{(ii)}$$

$$P > V = Z < R \quad \dots \text{(iii)}$$

Combining all the statements, we get

$$M = N > P > V = Z < R \leq Q = X$$

Thus, $M \geq R$ is not true.

Again, $V > Q$ is not true.

And, $N \leq R$ is not true.

Hence none is true.

24. (4) **Given statements:**

$$U \geq V \geq W = X \quad \dots \text{(i)}$$

$$B > C = D \geq U \quad \dots \text{(ii)}$$

Combining All the statements, we get

$$B > C = D > U \geq V \geq W = X$$

Thus, $D \geq V$ is true.

Again, $C \geq X$ is true.

Also, $B > U$ is true.

Hence, all I, II and III are true.

- 25.(4) **Given statements:**

$$A > B = M \quad \dots \text{(i)}$$

$$M \geq L \quad \dots \text{(ii)}$$

$$L > S \quad \dots \text{(iii)}$$

$$S < V \quad \dots \text{(iv)}$$

Combining all the statements, we get

$$A > B = M \geq L > S < V$$

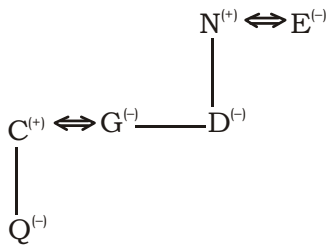
Thus, $M > S$ is true.

$L \leq A$ is not true.

$V > A$ is not true.

Hence, only conclusion I is true.

(26-28) :



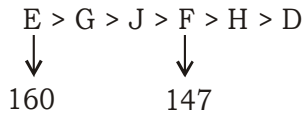
26. (3)

27. (3)

28. (3)

29. (2)

(30-32) :



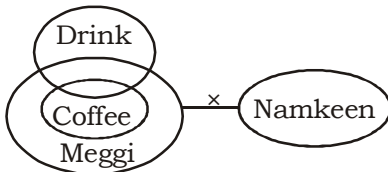
30. (2)

The shortest person is D.
∴ D's height = 147 - 15 = 132 cm

31. (1)

32. (4) 155 lies between 160 and 147. Thus, the possible height of G or J will be 155 cm.

(33-34) :



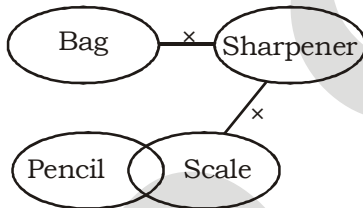
33. (5)

I. True II. True
Hence, both Conclusion I and II follow.

34. (1)

I. True II. False
Hence, only conclusion I follows.

35. (1)



I. True II. Can't say
Hence, only conclusion I follows.

36. (1) $\times \frac{1}{2} + \frac{1}{2}, \times 1 + 1, \times 1 \frac{1}{2} + 1 \frac{1}{2}, \dots$

37. (2) $\times 1 \frac{1}{2}, \times 2, \times 2 \frac{1}{2}, \dots$

38. (4) $+1^2, +3^2, +5^2, \dots$

39. (3) $\times 1 + 1, \times 2 - 1, \times 3 + 1, \times 4 - 1, \dots$

40. (5) $\times 2 + 2, \times 2 + 4, \times 2 + 4, \times 2 + 6, \dots$

41. (2) Direct Formula:

$$\text{Speed of boat} = \frac{1}{2} \left[\frac{16}{2} + \frac{16}{4} \right] = 6 \text{ km/hr}$$

$$\text{Speed of stream} = \frac{1}{2} \left[\frac{16}{2} - \frac{16}{4} \right] = 2 \text{ km/hr}$$

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42. (3) = $9900 \div 25 + 215 - 310 = ?$
 $\therefore ? = (400 - 4) + 215 - 310 = 396 + 215 - 310 \approx 300$
43. (5) Ratio of profit = $50 \times 3 : 80 \times 2.5 = 150 : 200 = 3 : 4$
 \therefore Sunetra's share = $\frac{24500}{7} \times 3 = ₹ 10500$
44. (2) 2 girls + 4 boys can sit in a row in $6! = 720$ ways without any condition.
 Now, if girls sit always together, they can sit in $5! \times 2$ ways, i.e. 240 ways.
 \therefore Required ways in which girls do not sit together = $720 - 240 = 480$
45. (4) Since T is a common in both groups, we can't separate the weight of one T from $P + 2T + R + F + G$.
46. (5) $2x + 3y + z = 55 \dots (1)$
 $x + z - y = 4 \dots (2)$
 $y - x + z = 12 \dots (3)$
 $(2) + (3) \Rightarrow 2z = 16 \therefore z = 8$
 Now, $(2) \Rightarrow x - y = -4 \dots (4)$
 and $(1) \Rightarrow 2x + 3y = 47 \dots (5)$
 $(5) - 2 \times (4) \Rightarrow 5y = 55$
 $\therefore y = 11$
47. (3) Suppose there are x children. Then each children gets $\frac{x}{5}$ sweets. Therefore $x \left(\frac{x}{5}\right) = 405$
 $\therefore x = \sqrt{2025} = 45$
 $\therefore \frac{x}{5} = 9$
48. (1) The required amount = $15000 \left(1 + \frac{5}{100}\right)^2 = 15000 \left(\frac{21}{20}\right)^2$
 $= \frac{15000 \times 21 \times 21}{20 \times 20} = ₹ 16537.5$
49. (4) Only ratio and percentage are given. So we cannot find any absolute value.
50. (4) Let E = the event of getting the sum 7.
 and,
 F = the event of getting at least one 2.
 Then,
 $E = \{(1, 6)(2, 5)(3, 4)(4, 3)(5, 2)(6, 1)\}$
 and,
 $F = \{(1, 2), (2, 2), (3, 2), (4, 2), (5, 2), (6, 2),$
 $(2, 1), (2, 3), (2, 4), (2, 5), (2, 6)\}$
 Then, $E \cap F = \{(2, 5), (5, 2)\}$
 Now, we have to find $P(F/E)$
 $P(F/E) = \frac{P(E \cap F)}{P(E)} = \frac{2}{6} = \frac{1}{3}$
51. (1) Marks of S in Chemistry = 120
 Total marks obtained by all the five students together = $90 + 110 + 100 + 120 + 60 = 480$
 \therefore Required % = $\frac{120}{480} \times 100 = 25\%$

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52. (5) Marks obtained by T in Physics = 50
 New marks to T in Physics = $50 + \frac{50 \times 14}{100}$
 \therefore Required% = $\frac{57}{140} \times 100 = 40.71 \approx 41\%$
53. (2) Total marks of T in both the subjects = $50 + 60 = 110$
 Marks obtained by R in Physics = 80, which is less than the marks obtained by T in both the subjects together.
54. (4) Ratio = $\frac{\text{Total marks obtained by P in both subjects}}{\text{Total marks obtained by T in both subjects}} = \frac{130+90}{50+60} = \frac{220}{110} = 2 : 1$
55. (2) Ratio = $\frac{\text{Marks obtained by Q and S in Chemistry}}{\text{Marks obtained by P and R in physics}} = \frac{110+120}{130+80} = \frac{230}{210} = 23 : 21$
56. (2) $(n \times 47) + 38 = n \times 49$
 or, $38 = 2n$
 $n = 19$
57. (3) \therefore Required profit % = $\frac{8}{25} \times 100 = 32\%$
58. (3) Worth of hotel after 3 years = $1200000 \times (1.25)^3 = 2343750$
 Worth of car after 3 years = $1800000 \left(1 - \frac{30}{100}\right)^3 = 1800000 \left(\frac{7}{10}\right)^3 = 617400$
 Req. difference = $2343750 - 617400 = ₹ 1726350$
59. (1) $A + B = 75$ (1)
 $B + C = 60$ (2)
 Now, adding (1) and (2)
 $(A + 2B + C) - (A + B + C) = B$
 or, $75 + 60 - 100 = B$
 $B = 35\%$ $A = 40\%$
 Hence, A is the most efficient.
60. (4) Suppose he walks for x hours.
 then $6x + 30(12 - x) = 20 \times 12$
 or, $6x + 360 - 30x = 240$
 or, $360 - 240 = 24x$
 $x = \frac{120}{24} = 5$ hours
- (61-65):**
61. (2) Total number of Engi-neering Colleges in the year 2009 = $225 + 150 + 100 + 50 = 525$
 Total number of Engin-eering Colleges in the year 2012 = $425 + 325 + 250 + 175 = 1175$
 Increase = $1175 - 525 = 650$
 \therefore Percentage increase = $\left(\frac{650}{525} \times 100\right)\% = 123.8\%$
62. (3) Total number of (IITs + NITs + Government Eng-ineering Colleges) in the year 2009 = $50 + 100 + 150 = 300$
 Number of IITs in the year 2012 = 175
 \therefore Req. ratio = $300 : 175 = 12 : 7$
63. (3) Total number of colleges in the year 2009 = 525
 Total number of colleges in the year 2010 = $250 + 200 + 150 + 75 = 675$
 \therefore Percentage increase = $\left(\frac{150}{525} \times 100\right)\% = 28.57\%$
 Total number of colleges in the year 2011 = $275 + 250 + 175 + 175 = 825$

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$$\therefore \text{Percentage increase} = \left(\frac{825 - 675}{650} \times 100 \right) \% = 23.07\%$$

Total number of colleges in the year 2012 = 1175

$$\therefore \text{Percentage increase} = \left(\frac{1175 - 825}{825} \times 100 \right) \% = 42.42\%$$

Hence, required year is 2011.

64. (1) Total number of students studying in (IITs + NITs + Government Engineering Colleges) in the year 2012 = 200000

$$\left(\frac{10}{100} + \frac{15}{100} + \frac{30}{100} \right) = 55 \times 2000 = 110000$$

Average of the number of students studying in (IITs + NITs + Government Engineering Colleges) = $\frac{110000}{3} = 36666.7$

Students studying in Private Engineering colleges in the year 2012 = $200000 \times \frac{45}{100} = 90000$

$$\therefore \text{Required \%} = \left(\frac{90000 - 36666.7}{90000} \times 100 \right) \% = 59.25\%$$

65. (3) Number of IITs and NITs in the year 2011 = $125 + 175 = 300$
Number of IITs and NITs in the year 2012 = $175 + 250 = 425$

$$\therefore \text{Percentage increase} = \left(\frac{425 - 300}{300} \times 100 \right) \%$$

Required% = 41.66%

66. (4) $? = \frac{6561 \times 100}{1018 \times 215 \times 3} = 81$

67. (5) $7365 + 29.16 + \sqrt{?} = 7437.16$

$$\sqrt{?} = 7437.13 - 7394.16$$

$$\sqrt{?} = 43 \quad ? = 1849$$

68. (3) $98 \div 14 \times 49 - 294 = (?)^2$

$$\frac{98}{14} \times 49 - 294 = 343 - 294$$

$$= 49 = (-7)^2 = -7$$

69. (1) $(2 \times 3)^3 \div (4 \times 9)^2 \times (27 \times 8) 2 = 6^?$

$$\frac{6 \times 6 \times 6}{36 \times 36} \times 27 \times 8 \times 27 \times 8 = 6^5$$

70. (2) $454.58 - 376.89 + 121.45 - 95.42 = ?$
 $= 576.03 - 472.31 = 103.72$

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IBPS CLERK SPECIAL - I MOCK TEST - 296 (ANSWER KEY)

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