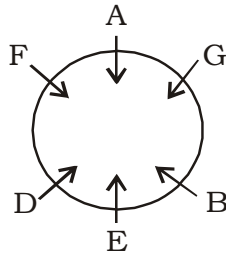


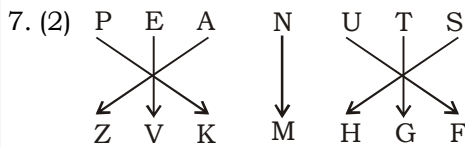
**IBPS PO SPECIAL PHASE - I MOCK TEST - 234 (SOLUTION)**

**REASONING**

(1-5):

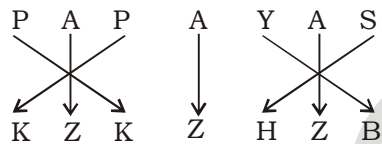


1. (3)      2. (5)      3. (3)      4. (4)      5. (1)



(Opposite letters)

Similarly,



(Opposite letters)

(8-9):

**Given statements:**

- $K \geq J > C$  .....(i)  
 $A < B \leq E$  .....(ii)  
 $C = D > A$  .....(iii)

- 8.(5) From (i) and (iii), we get  
 $K \geq J > C = D > A$   
 Thus,  $K > D$  is true. Hence I is true  
 Again,  $J > D$  is also true  
 So, both conclusion I and II are true
- 9.(4) From (i), (ii) and (iii), we get  
 $K \geq J > C = D > A < B \leq E$   
 Thus, we can't compare C and E or B and J. Hence conclusion I ( $C \leq E$ ) and II ( $B \geq J$ ) are not true.

**(10-11): Given statements:**

- $A \geq N < K$  ..... (i)  
 $B \geq L > D$  .....(ii)  
 $H = K \geq C$  .....(iii)  
 $C = D$  .....(iv)

- 10.(1) From (i) and (iii), we get  
 $A \geq N < K = H \geq C$   
 Thus,  $N < H$  or  $H > N$  is true Hence conclusion I ( $H > N$ ) is true.  
 But, we can't compare A and C. Hence II ( $A \leq C$ ) is not true.

- 11.(4) From (i), (ii), (iii) and (iv), we get  
 $A \geq N < K = H \geq C = D < L \leq B$   
 Thus, we can't compare L and K. Hence I ( $L < K$ ) is not true.

Again,  $C < B$  or  $B > C$  is true. But conclusion II ( $B \geq C$ ) is not true.

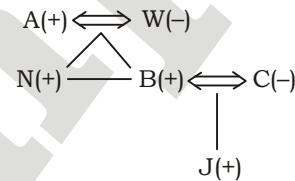
12.(1) **Given statement:**

$H \geq M > Z \geq P < D$

Thus,  $H > P$  is true. Hence conclusion I is true. But, we can't compare D and M. Hence conclusion II ( $D > M$ ) is not true.

(13-14):

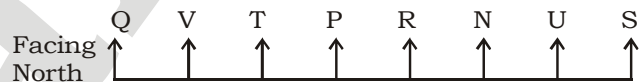
**Family tree**



13. (2)

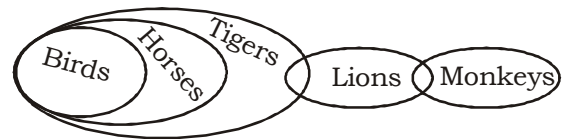
14. (3)

**(15-19):**



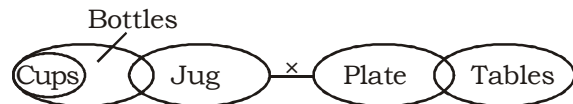
15. (2)      16. (4)      17. (2)      18. (4)      19. (1)

20. (1)



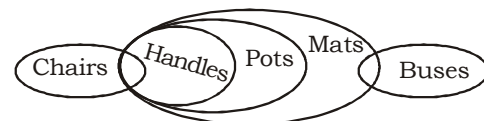
- I. True      II. Can't say  
 III. True      IV. Can't say  
 Hence, only I and III follow.

21. (5)



- I. Can't say      II. Can't say  
 III. Can't say      IV. Can't say  
 But after comparing, we find that either I or III is true.

22. (2)



- I. Can't say      II. True  
 III. True      IV. True  
 Hence, only II, III and IV follow.

23. (4)      24. (5)

# Campus KD Campus

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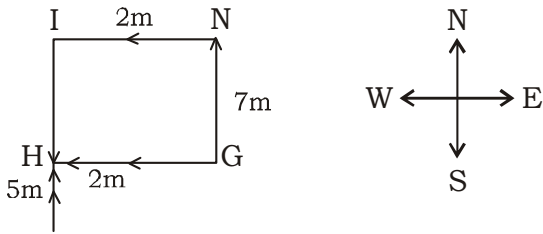
25.(3) After changing the letters, we get  
RNM   PTT   AHR   TPP   MAA

26.(3) After adding F in word, we get  
FROM   FPUT   FAIR   FTQP   FMBA  
Thus, there are two meaningful words.

27.(5) After arranging the words, we get  
AIR   MBA   PUT   ROM   TQP  
Thus, third from the right end is PUT.

28.(2) After changing the letters, we get  
MOR   TUP   RIA   PQT   ABM  
Thus there is only one word beginning with a vowel.

**(29-30):**



29.(2) ID = 7 + 5 = 12m north.

30.(3)

**(31 -35):**

Floor	Person
8	C
7	D
6	A
5	G
4	E
3	H
2	F
1	B

31. (3) 32. (4) 33. (4) 34. (2) 35. (3)

### MATHS

36. (2) Solving by breaking method

$$= 18 \times 172 + \frac{1}{4} \times 172 + 33 \times 18.90 + \frac{2}{3}$$

$$37 \times 196.80 + 37 \times 196.80 + \frac{2}{3} \times 196.80$$

$$= 3096 + 43 + 623.7 + 12.6 + 7281.6 + 131.2$$

$$= 3139 + 636.3 + 7412.8 = 11188.1$$

37.(3)  $? = (\sqrt[3]{512})^2 + (\sqrt[4]{6561})^3 + (\sqrt[3]{216})^2 = 64 + 729 + 36 = 829$

38. (1)  $? = 25\% (7560 - 7830 + 6240) + 3\% \text{ of } 7560 - 2\% \text{ of } 7830 + 1\% \text{ of } 6240$

$$= \frac{1}{4} (5970) + 3 \times 75.6 - 2 \times 78.3 + 1 \times 62.4$$

$$= 1492.5 + 226.8 - 156.6 + 62.4 = 1625.10$$

39.(4)  $? = \frac{677 \times 677 \times 677 + 223 \times 223 \times 223}{677 \times 677 - 677 \times 223 + 223 \times 223}$

We know that,

$$\frac{a^3 + b^3}{a^2 - ab + b^2} = a + b = (677 + 223) = 900$$

40.(5)  $\sqrt{?} = \sqrt{29241} - \sqrt{6724} + \sqrt{3969} - \sqrt{4356}$

$$= 171 - 82 + 63 - 66 = 86$$

$$? = 86 \times 86 = 7396$$

41.(1) The series is  $14 + 1.6 \times -1 = 12.4, 12.4 + 1.6 + 2 = 15.6, 15.6 + 1.6 \times -3 = 10.8, 10.8 + 1.6 \times 4 = 17.2, 17.2 + 1.6 \times -5 = 9.2,$

42.(4) The series is  $28 \times 2 = 56, 56 \times 3 = 168, 168 \times 4 = 672, 672 \times 5 = 3360, 3360 \times 6 = 20160.$

43.(3) The series is  $(17)^3, (16)^2, (15)^3, (14)^2, (13)^3, (12)^2, \dots$  ie 4913, 256, 3375, 196, 2197, 144

44.(4) The series is

$$\begin{array}{cccccc} +42 & -84 & +126 & -168 & +210 & \\ \hline 987 & 1029 & 945 & 1071 & 903 & 1113 \end{array}$$

45.(2) The series is

$$\begin{array}{cccccc} \times 1/2 & \times 2/3 & \times 3/4 & \times 4/5 & \times 5/6 & \\ \hline 480 & 240 & 160 & 120 & 96 & 80 \end{array}$$

46.(2) Req'd average number

$$\frac{559500 + 80000 + 330000 + 1956500}{4}$$

$$\frac{2926000}{4} = 731500$$

47.(1) Req'd difference =  $1531000 - (444000 + 596000) = 1531000 - 1040000 = 491000$

48.(3) Req'd % =  $\frac{87}{77} \times 100 = 112.98 \approx 113\%$

49.(4) Req'd difference

$$\frac{1}{5} (1722850 - 410250) = \frac{1}{5} \times 1312600$$

$$= 262520$$

50.(1) Req'd % =  $\frac{(509 - 444)}{444} \times 100$

$$\frac{65}{444} \times 100 = \frac{1625}{111} \% = 14.64\%$$

51.(3) Ratio of efficiency of a man to that of a

$$\text{woman} = \frac{3}{5} : \frac{1}{3} = 9 : 5$$

$$\therefore 36 \times x \times 9 = 48(x + 7) \times 5$$

$$\text{or, } 324x - 240x = 48 \times 5$$

$$\text{or, } 84x = 48 \times 5 \times 7$$

$$\therefore x = 20 \text{ days}$$

52.(2) The total work is  $36 \times 20 = 720$  man-days

or  $48 \times 27 = 1296$  women-days.

Remaining work after 6 days

$$= 1 - 6 \times \left( \frac{10}{720} + \frac{16}{1296} \right)$$

$$= 1 - 6 \times \left( \frac{1}{72} + \frac{1}{72} \right) = 1 - \frac{6 \times 2}{72} = \frac{5}{6} \times 30$$

$$\text{using } M_1 D_1 W_2 = M_2 D_2 W_1$$

$$20 \times 20 \times 1 = 12 \times D_2 \times \frac{5}{6}$$

$$\therefore D_2 = 40 \text{ days}$$

53.(2) Let the distance of one side be  $x$  km.

$$\therefore \frac{x}{55} - \frac{x}{66} = \frac{1}{2} \text{ or, } \frac{6x - 5x}{330} = \frac{1}{2}$$

$$\text{or, } \frac{x}{330} = \frac{1}{2} \therefore x = 165 \text{ km}$$

**Quicker Approach:**

Let the distance he LCM of 55 and 66 = 330 km

Time taken at 55 kmph = 6 hour

Time taken at 66 kmph = 5 hours

$$6 - 5 = 1 \text{ hour} \equiv 330 \text{ km}$$

$$\therefore \frac{1}{2} \equiv 165 \text{ km}$$

54.(3) Total number of question = 250

Total number of question to be answered correctly for her grade in exam to be 70%

$$= 250 \times \frac{70}{100} = 175$$

Reqd number of question = 175 - 75

$$\times \frac{40}{100} = 17 - 75 \times \frac{2}{5} = 175 - 30 = 145$$

55.(5) Let the workers work for  $x$  hours.

$$\therefore \frac{600}{35} \times (42 + (x - 42) \times \frac{3}{2}) = 1800$$

$$\text{or, } \frac{600}{35} (42 + \frac{3}{6} - 63) = 1800$$

$$\frac{3x}{2} - 21 = \frac{1800 \times 35}{600} = 105$$

$$\frac{3x}{2} = 105 + 21 \therefore x = \frac{126 \times 2}{3} = 84 \text{ hours}$$

**Quicker Approach:**

In normal case, to get ₹1800, which is 3 times of ₹600, he should have to work for  $3 \times 35 = 105$  days

Now, suppose he works over-time for 'x' days. And each day of over-time is

equivalent to  $\frac{3}{2}$  of normal day as he is

paid  $\frac{3}{2}$  times of normal payment.

$$\text{So, } 42 + \frac{3}{2}x = 105 \quad \text{or, } \frac{3}{2}x = 63$$

$$x = 42 \text{ days}$$

Therefore total no. of days he worked

$$= 42 + 42 = 84 \text{ days}$$

56.(1) Given time = 8 years 4 months

$$= 8 \frac{1}{3} = \frac{25}{3} \text{ years}$$

Let the sum be ₹x.

$$SI = ₹x$$

$$\therefore \text{Rate} = \frac{x \times 100 \times 3}{x \times 25} = 12\%$$

57.(2) Liquid A in the mixture of 27 litres

$$27 \times \frac{5}{9} = 15 \text{ litres}$$

Liquid B in the mixture = 27 - 15 = 12 litres

Now, according to the question,

$$\frac{5x - 15}{4x + 27 - 12} = \frac{7}{11}$$

$$\text{or, } 55x - 165 = 28x + 105$$

$$\text{or, } 27x = 270$$

$$\therefore x = 10$$

Hence liquid A in the mixture = 5 × 10 = 50 litres

**Quicker Approach:**

Considering fractional part of A and B in mixture

$$A : B = \frac{5}{9} : \frac{4}{9} \quad \dots\dots (i)$$

After replacement

$$A : B = \frac{7}{18} : \frac{11}{18} \quad \dots\dots (ii)$$

Now, change the denominator of (i) from

9 to 18. i.e. multiply (i) by  $\frac{1}{2}$  to compare

the decrease A.

Now, the ratios become:

$$\text{Initially } A : B = \frac{10}{18} : \frac{8}{18}$$

$$\text{After replacement } A : B = \frac{7}{18} : \frac{11}{18}$$

From the above two ratios it is clear that

liquid A reduces from  $\frac{10}{18}$  to  $\frac{7}{18}$

Also, the reduction in quantity of A is

$$27\left(\frac{5}{5+4}\right) \text{ litres}$$

$$\Rightarrow \left(\frac{10}{18} - \frac{7}{18}\right) \text{ of the liquid} = 27\left(\frac{5}{9}\right) \text{ litres}$$

$$\therefore \text{ or } \frac{1}{6} \text{ of total liquid} = 15 \text{ litres}$$

Total liquid = 90 litres

$$\text{Therefore, quantity of A} = 90\left(\frac{5}{5+4}\right) = 50 \text{ litres}$$

$$\begin{aligned} 58.(1) \text{ Req'd ratio} &= \frac{40500 \times \frac{3+25}{100}}{33600 \times \frac{(11+22)}{100}} \\ &= \frac{405 \times 28}{336 \times 33} = \frac{135}{12 \times 11} = \frac{45}{44} = 45 : 44 \end{aligned}$$

$$\begin{aligned} 59.(3) \text{ Req'd difference} &= \left(40500 \times \frac{12+25+3}{3 \times 100}\right) - \\ &\left(33600 \times \frac{25+11+6}{100 \times 3}\right) \\ &= (135 \times 40) - (112 \times 42) = 5400 - 4704 \\ &= 696 \end{aligned}$$

60.(5) Number of laptops sold by HPE in Q4 2015 = 18900  
Number of laptops sold by HPE in Q3 2016

$$= 40500 \times \frac{2}{5} \times \frac{11}{10} = 17820$$

$$\therefore \text{ req'd \%} = \frac{(18900 - 17820)}{18900} \times 100$$

$$= \frac{1080}{18900} \times 100 = 5.72\% \text{ less}$$

61.(4) Total number of laptops sold by company Dell, Lenovo and Others together

$$= 33600 \left( \frac{25}{100} \times \frac{110}{100} + \frac{11}{100} \times \frac{125}{100} + \frac{22}{100} \times \frac{150}{100} \right)$$

$$= 33600 \left( \frac{110}{400} \times \frac{55}{400} + \frac{66}{200} \right)$$

$$= 33600 \left( \frac{110+55+132}{400} \right)$$

$$= 33600 \times \frac{297}{400} = 24948$$

$$62.(2) \text{ Req'd ratio} = \frac{40500 \times \frac{(25+4+3)}{100}}{33600 \times \frac{25+6+2}{100}}$$

$$= \frac{405 \times 32}{336 \times 33} = \frac{135 \times 2}{21 \times 11} = \frac{90}{77} = 90 : 77$$

$$63. (5) \text{ I: } \sqrt{x} - \frac{\sqrt{6}}{\sqrt{x}} = 0,$$

$$\sqrt{x} \cdot \sqrt{x} - \sqrt{6} \Rightarrow x = \sqrt{6}$$

$$\text{II. } y^3 = 6^{3/2} \Rightarrow y = (6^{3/2})^{1/3} = 6^{1/2} = \sqrt{6}$$

Hence,  $x = y$

$$64. (1) 3x - 2y = 10$$

$$5x - 6y = 6$$

$$9x - 6y = 30$$

$$\begin{array}{r} 5x - 6y = 6 \\ \underline{4x} \quad \quad = 24 \end{array}$$

$$\therefore x = 6$$

Now,

$$5 \times 6 - 6y = 6$$

$$\therefore y = \frac{24}{6} = 4$$

$$65. (5) \text{ I. } x^2 + x - 12 = 0$$

$$x^2 + 4x - 3x - 12 = 0$$

$$x(x+4) - 3(x+4) = 0$$

$$(x+4)(x-3) = x = -4, 3$$

$$\text{II. } y^2 - 5y + 6 = 0$$

$$y^2 - 3y - 2y + 6 = 0$$

$$y(y-3) - 2(y-3) = 0$$

$$(y-3)(y-2) = 0$$

$$y = 3, 2$$

Hence, the relationship between  $x$  and  $y$  can't be established

$$66. (3) \text{ I. } x^2 + 6x + 3x + 18 = 0$$

$$x(x+6) + 3(x+6) = 0$$

$$(x+6)(x+3) = 0$$

$$x = -6, -3$$

$$\text{II. } y^2 - 8y - 5y + 40 = 0$$

$$y(y-8) - 5(y-8) = 0$$

$$(y-8)(y-5) = 0$$

$$y = 8, 5$$

Hence,  $x < y$

$$67. (2) \text{ I. } \sqrt{x+6} = 11-6$$

$$= \sqrt{x+6} = 5; \quad x+6 = 25; \quad x = 19$$

$$\text{II. } y^2 + 112 = 473$$

$$y^2 = 473 - 112 = 361; \quad y = \pm 19$$

Hence,  $x \geq y$

68. (2) Let one man takes  $x$  days to complete the work and one woman takes  $y$  days to complete the work independently.

Then,  $\frac{4 \times 4}{x} + \frac{10 \times 4}{y} = \frac{1}{3}$

and  $\frac{6 \times 2}{x} + \frac{12 \times 2}{y} = \frac{2}{9}$

Solving above equations, we get

$x = 108, y = 216$

Let  $z$  women be added to complete the work in 3 days.

Then,  $\frac{6 \times 3}{108} + \frac{3(12+z)}{216}$

$= 1 - \left(\frac{1}{3} + \frac{2}{9}\right) = \frac{4}{9}$

$\Rightarrow 36 + 36 + 3z = \frac{216+4}{9} = 96$

69. (4) Total balls initially in the bag =  $4 + 5 + 6 = 15$

There are 4 red balls

If on first draw, red balls comes out then 6 more red balls are added

$\therefore$  The probability of red balls on first draw

$= \frac{4}{15}$

Due to withdraw of one red balls now there are only 3 red balls is left.

Also, there is no replacement done so, total number of balls becomes 14.

After adding 6 new red balls total number of balls becomes =  $14 + 6 = 20$

And total number of red balls =  $3 + 6 = 9$

Now, if on the 2nd draw, red balls is drawn, then,

$\therefore$  The probability of red balls on 2nd draw

$= \frac{9}{20}$

As there is no replacement done so, total number of balls becomes 19

And total number of red balls =  $9 - 1 = 8$

Now, if on the 3rd draw, red balls is drawn then

$\therefore$  The probability of red balls on 3rd draw =

$\frac{8}{19}$

$\therefore$  Final probability if on both the draws red

balls is drawn =  $\frac{4}{15} \times \frac{9}{20} \times \frac{8}{19} = \frac{24}{475}$

Hence,  $\frac{24}{475}$  is the probability of all the

3 balls drawn are of red ball.

70. (3) Let the side of the square be  $x$ .

Then,  $(\sqrt{2}x)^2 = (12\sqrt{2})^2$

$\Rightarrow x = 12$

Now, perimeter of equilateral triangle

$= 12 \times 4 = 48$  cm

Side of equilateral triangle =  $\frac{48}{3} = 16$  cm

Area of equilateral triangle =  $\frac{\sqrt{3}}{4} \times (16)^2$

$= 64\sqrt{3}$  cm<sup>2</sup>

**ENGLISH LANGUAGE**

71.(3) Replace 'to' with 'for'

72.(4) Replace "tap" with 'tapping'

74.(4) Replace 'hardened' with 'hardening'

75.(3) Replace 'have' with 'had'

**(91-95): DCAGFEB**

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**IBPS PO SPECIAL PHASE -I MOCK TEST - 234 (ANSWER KEY)**

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

**Note:- If you face any problem regarding result or marks scored, please contact 9313111777**

**Note:- Whatapp with Mock Test No. and Question No. at 7053606571 for any of te doubts. Join the group and you may also share your suggestions and experience of sunday Mock Test.**

**Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003**