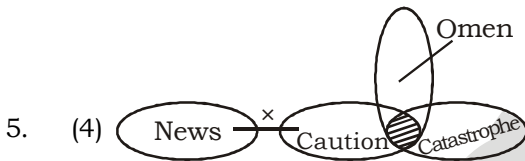
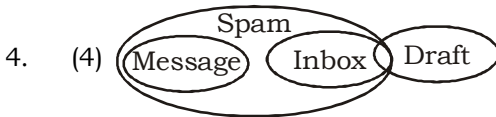
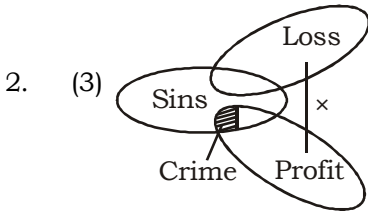


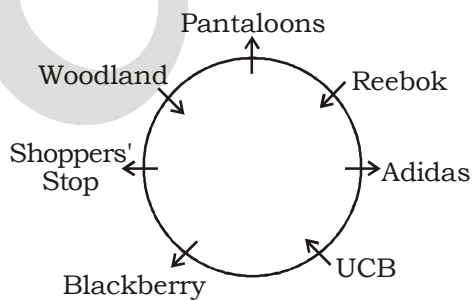
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IBPS PO SPECIAL PHASE - I MOCK TEST - 249 (SOLUTION)



(6-10):



6. (4)

7. (2)

8. (1)

9. (3)

10. (1)

(11-15):

Note : '+' and '-' shows Male and Female respectively.

| Person | Car | Collage |
|-----------------------|------------|----------------|
| Bravosi ⁻ | Woodstrick | Khol Maro |
| Stark ⁺ | Needle | Winterfell |
| Tyrion ⁺ | Humor | Dorne |
| Tywin ⁺ | Hand King | Westeros |
| Pentos ⁺ | Triton | Tarth |
| Cersei ⁻ | Throne | King's Landing |
| Targyion ⁻ | Dragon | Desert |

11. (1)

12. (3)

13. (4)

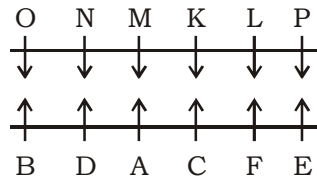
14. (5)

15. (3)

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(16-20) :



16. (2)

17. (1)

18. (3)

19. (1)

20. (4)

(21-25) :

only – na
order – ve
in – pu
serial – to
the – su
state – li
idea – Jo
logical – ri
or theory – zt bk

21. (4)

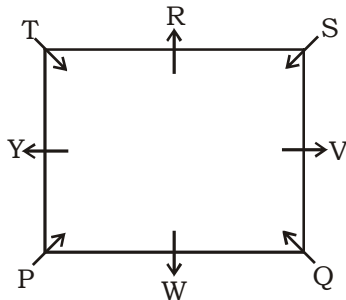
22. (2)

23. (5)

24. (3)

25. (1)

(26-30) :



26. (2)

27. (3)

28. (4)

29. (3)

30. (4)

31. (5)

32. (1)

33. (2)

34. (4)

35. (4)

MATHS

36. (5) $4 + \left(\frac{1}{6} + \frac{3}{4} - \frac{1}{4} \right) = 4 + \left(\frac{2+9-3}{12} \right)$
 $= 4 + \left(\frac{8}{12} \right) = 4 \frac{2}{3}$

37. (1) $36251 + 43261 = ? + 52310$
 $\therefore ? = 79512 - 52310 = 27202$

38. (2) $\frac{45}{6} \times 534 + 262 = 61800 - ?$
 $4005 + 262 = 61800 - ?$
 $61800 - 4267 = 57533$

39. (4) $486 \times \frac{72}{100} - 261 \times \frac{64}{100} = 349.92 - 167.04 = 182.88$

40. (1) $\frac{?}{62} \times 12 = 264$

$\therefore ? = \frac{264 \times 62}{12} = 1364$

41. (2) Total no. of males who cast their votes from Bihar and Jharkhand together

$= 26500 \times \frac{83}{100} \times \frac{3}{5} + 9200 \times \frac{91}{100} \times \frac{1}{2} = 13197 + 4186 = 17383$

$\therefore \text{Required \%} = \left(\frac{17383 - 4900}{4900} \times 100 \right) \% = 254.75\% \approx 255\%$

42. (3) Required total no. of votes in 2017 = $9200 \times \frac{120}{100} + 26500 \times \frac{125}{100}$
 $= 11040 + 33125 = 44165$

43. (1) Total no. of females who cast their notes from Haryana and Delhi together

$= 4900 \times \frac{79}{100} \times \frac{3}{7} + 13500 \times \frac{78}{100} \times \frac{3}{10} = 1659 + 3159 = 4818$

Total number of males who cast their votes from Jharkhand and Haryana together

$= 9200 \times \frac{91}{100} \times \frac{1}{2} + 4900 \times \frac{79}{100} \times \frac{4}{7} = 4186 + 2212 = 6398$

$\therefore \text{Required ratio} = 4818 : 6398 = 2409 : 3199$

44. (4) Average number of registered voters from Bihar and Assam together = $\frac{26500 + 18500}{2}$
 $= \frac{45000}{2} = 22500$

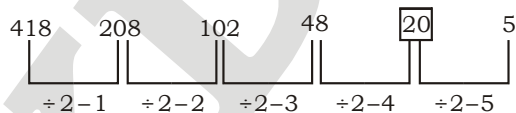
Total number of registered voters from Delhi and Haryana together = $13500 + 4900 = 18400$

$\therefore \text{Required difference} = 22500 - 18400 = 4100$

45. (5) Total number of voters registers from Assam who belongs to Hindu community

$= 18500 \times \frac{45}{100} = 8325$

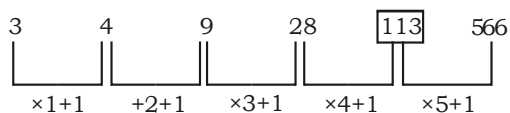
46. (3) The number series is based on the following patterns :



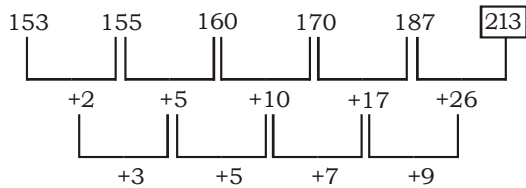
47. (1) The number series is based on the following patterns :



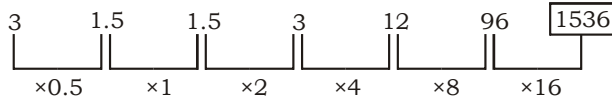
48. (3) The number series is based on the following patterns :



49. (3) The number series is based on the following patterns :



50. (3) The number series is based on the following patterns :



51. (3) (Ram + Shyam) per day work = $\frac{1}{24} + \frac{1}{16} = \frac{5}{48}$

Number of days in which Ram and Shyam together can do the work = $\frac{48}{5}$

$$\text{Time taken by Mohan} = \frac{4}{5} \times \frac{48}{5} = \frac{192}{25}$$

$$\text{Mohan per day work} = \frac{25}{192}$$

$$\text{Work done Ram and Shyam in 6 days} = \frac{6 \times 5}{48} = \frac{5}{8}$$

$$\text{Work done by Mohan} = 1 - \frac{5}{8} = \frac{3}{8}$$

$$\text{Number of days Mohan worked} = \frac{\frac{3}{8}}{\frac{25}{192}} = \frac{3}{8} \times \frac{192}{25} = 2\frac{22}{25} \text{ days}$$

52. (5) C. P of suman = $\frac{9240}{84} \times 100 = ₹ 11000$

$$\text{S.P of Raman} = 11000 \times \frac{122}{100} = ₹ 13420$$

$$\therefore \text{Raman's gain} = 13420 - 9240 = ₹ 4180$$

53. (1) Ram + Shyam = 40 years (i)
Mohan + Shyam = 38 years (ii)
Ram + Mohan = 42 years (iii)

Solving (i) (ii) and (iii), we get

Ram = 22 years, Shyam = 18 years and Mohan = 20 years

54. (4) Let the total voters = 100
Number of voters cast their votes = 80

$$\text{Number of valid votes} = 80 \times \frac{90}{100} = 72$$

$$\therefore 72 \text{ unit} \rightarrow \frac{7776}{75} \times 100 = 10368$$

$$\therefore 100 \text{ unit} \rightarrow \frac{10368}{72} \times 100 = 14400$$

55. (4) A B

$$\begin{array}{ccc} \frac{8}{13} & & \frac{5}{7} \\ & \searrow & \nearrow \\ & \frac{9}{13} & \\ & \nearrow & \searrow \\ \frac{2}{91} & & \frac{1}{13} \end{array}$$

= 2 : 7

56. (5) Profit of company Q in 2011 = $280 \times \frac{120}{100} = 336$ lakh

Profit of company T in 2011 = $440 \times \frac{135}{100} = 594$ lakh

∴ Required difference = $594 - 336 = 258$ lakh

57. (5) Total profit of company P, R and T in the year 2009 = $460 + 140 + 440 = 1040$ lakh

Total profit of company Q and S in the year 2010 = $280 + 120 = 400$ lakh

∴ Required % = $\left[\frac{1040 - 400}{400} \times 100 \right] \% = \left(\frac{640}{400} \times 100 \right) \% = 160\%$

58. (1) Total profit earned in the year 2009 = $100 + 280 + 420 + 140 + 320 = 1260$ Lakh

Total profit earned in the year 2010 = $460 + 380 + 140 + 260 + 440 = 1680$ lakh

∴ Required difference = $1680 - 1260 = 420$ Lakh

59. (5) Total profit of company R in the year 2009 and 2010 = $420 + 140 = 560$ lakh

Total profit of company S in the year 2009 and 2010 = $260 + 140 = 400$ lakh

∴ Required ratio = $560 : 400 = 7 : 5$

60. (3) Average profit earned by company P and Q in the year 2009 = $\frac{460 + 380}{2} = \frac{840}{2} = 420$ lakh

Average profit earned by company S and T in the year 2010 = $\frac{140 + 320}{2} = \frac{460}{2} = 230$ lakh

∴ Required difference = $420 - 230 = 190$ lakh

61. (1) Side of rhombus = $\frac{80\sqrt{2}}{\sqrt{2}} = 80$ cm

Let diagonal of rhombus = $3x$ and $4x$

ATQ,

$$\left(\frac{3x}{2} \right)^2 + \left(\frac{4x}{2} \right)^2 = 6400$$

$$25x^2 = 6400 \times 4$$

$$x^2 = \frac{6400 \times 4}{25} = 1024$$

$$x = 32 \text{ cm}$$

∴ Area of rhombus = $\frac{1}{2} \times (3 \times 32) \times (4 \times 32) = 6144 \text{ cm}^2$

62. (2) Total share of Rahim and karim = ₹ 841000

Let share of Rakim = ₹ x

Share of Karim = ₹ $(84100 - x)$

ATQ,

$$x \times \left(1 + \frac{5}{100}\right)^3 = (84100 - x) \left(1 + \frac{5}{100}\right)^5$$

$$x = ₹ 44100$$

$$\text{Share of karim} = 84100 - 44100 = ₹ 40000$$

63. (2) Iron in 1 kg ore = $1 \times \frac{20}{100} \times \frac{85}{100}$ kg

$$\left(\frac{100}{20} \times \frac{100}{85}\right) \text{ kg ore} = 1 \text{ kg iron}$$

$$\left(5 \times \frac{100}{85} \times 60\right) \text{ kg ore} = 60 \text{ kg iron}$$

$$= 352.94 \text{ kg ore}$$

64. (1) Total CP = $1.8 \times 144 = ₹ 259.2$

$$\text{Total SP} = \left(100 - \frac{125}{900}\right) \times 144 \times 2.4 = ₹ 297.6$$

$$\text{Gain percentage} = \left[\frac{(297.6 - 259.2)}{259.2} \times 100\right] \% = 14 \frac{22}{27} \%$$

65. (5) $(3 \times 10\%)$ of A = $(5 \times 12\%)$ of B = $(6 \times 15\%)$ of C

(Let A, B, C are the investments)

$$0.3 A = 0.6 B = 0.9 C$$

$$A : B : C = 6 : 3 : 2$$

66. (1) I. $x^2 + 12x + 36 = 0$

$$x^2 + 6x + 6x + 36 = 0$$

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

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

$$x = -6, -6$$

II. $y^2 + 15y + 56 = 0$

$$y^2 + 8y + 7y + 56 = 0$$

$$y(y + 8) + 7(y + 8) = 0$$

$$(y + 7)(y + 8) = 0$$

$$y = -7, -8$$

Clearly, $x > y$

67. (1) I. $x^2 = 35$

$$x = +\sqrt{35}, -\sqrt{35}$$

II. $y^2 + 13y + 42 = 0$

$$y^2 + 7y + 6y + 42 = 0$$

$$y(y + 7) + 6(y + 7) = 0$$

$$(y + 6)(y + 7) = 0$$

$$y = -6, -7$$

Clearly, $x > y$

68. (2) I. $2x^2 - 3x - 35 = 0$
 $2x^2 - 10x + 7x - 35 = 0$
 $2x(x - 5) + 7(x - 5) = 0$
 $(2x + 7)(x - 5) = 0$

$$x = -\frac{7}{2}, 5$$

II. $y^2 - 7y + 6 = 0$
 $y^2 - 6y - y + 6 = 0$
 $y(y - 6) - 1(y - 6) = 0$
 $(y - 6)(y - 1) = 0$
 $y = 6, 1$

Clearly, $x < y$

69. (4) I. $6x^2 - 29x + 35 = 0$
 $6x^2 - 15x - 14x + 35 = 0$
 $3x(2x - 5) - 7(2x - 5) = 0$
 $(3x - 7)(2x - 5) = 0$

$$x = \frac{7}{3}, \frac{5}{2}$$

II. $2y^2 - 19y + 35 = 0$
 $2y^2 - 14y - 5y + 35 = 0$
 $2y(y - 7) - 5(y - 7) = 0$
 $(2y - 5)(y - 7) = 0$

$$y = \frac{5}{2}, 7$$

Clearly, $x \leq y$

70. (2) I. $12x^2 - 47x + 40 = 0$
 $12x^2 - 32x - 15x + 40 = 0$
 $4x(3x - 8) - 5(3x - 8) = 0$
 $(4x - 5)(3x - 8) = 0$

$$x = \frac{5}{4}, \frac{8}{3}$$

II. $4y^2 + 3y - 10 = 0$
 $4y^2 + 8y - 5y - 10 = 0$
 $4y(y + 2) - 5(y + 2) = 0$
 $(4y - 5)(y + 2) = 0$

$$y = \frac{5}{4}, -2$$

Clearly, $x \geq y$

ENGLISH LANGUAGE

91. (2) Add 'that' before 'the work'.
 92. (4) Change 'indicates' into 'indicate'.
 93. (3) Change 'to be' into 'being'.
 94. (3) Remove 'the' before 'earth'.
 95. (1) Change 'life' into 'lives'.
 96. (1) Change 'have' into 'has'.
 97. (2) Change 'linkage to into' 'linked to'.
 98. (1) Change 'easy through' into 'eased through'.
 99. (5) No error.
 100. (1) Remove 'the' before 'Anglo - saxon'.

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IBPS PO SPECIAL PHASE -I MOCK TEST - 249 (ANSWER KEY)

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