

IBPS RRB Office Assistant (Pre) 2020 Exam Question Paper

Answers with Explanation

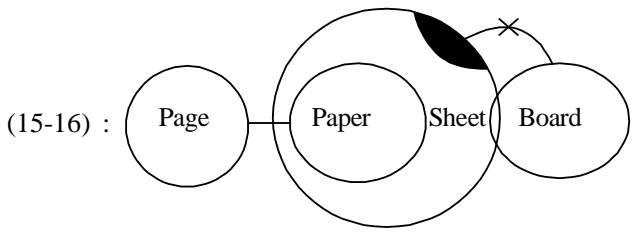
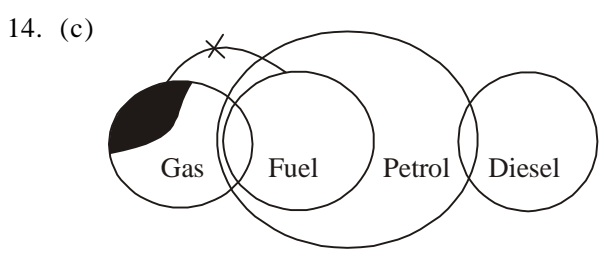
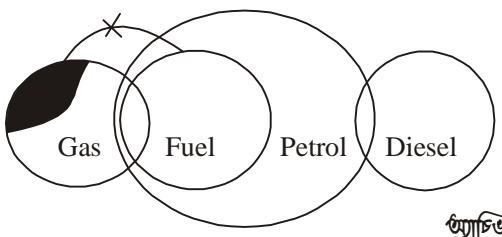
(1-5) :

1. (c)
2. (a)
3. (c)
4. (b)
5. (a)
6. (d) There are four such pairs: M-S, A-C, A-E and C-E.
7. (b) Original Word: **34827956**
After Applying given condition: **15935737**

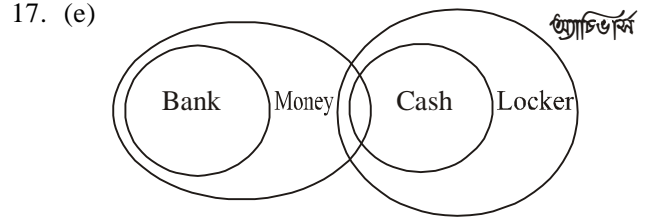
(8-12) :

	7th	12th
January	C	A
February	D	E
March	F	B

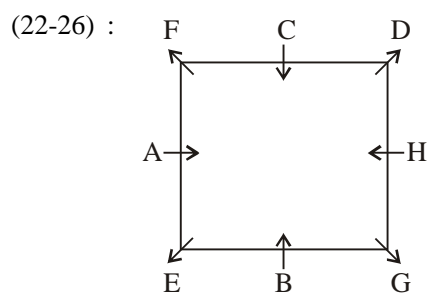
8. (c)
9. (d)
10. (b)
11. (b)
12. (c)
13. (b)



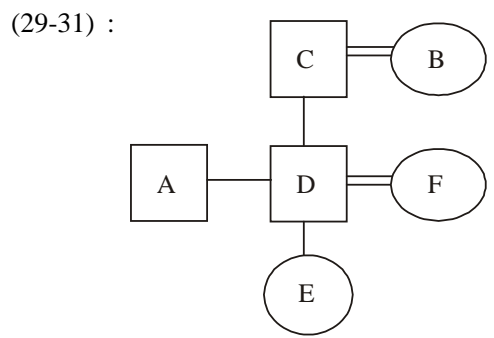
15. (a)
16. (b)



18. (a) Word: MIXTURE
After applying condition: EIMRTUX
Hence, only I remains at the same position.
19. (d) 8 A 9 C F 4 3 2 M 8 P Q 7 2 R 1 S 9
5 N 4 H 9 B 4 9 6 P A 5
Hence, option d is the correct answer.
20. (b) 8 A 9 C F 4 3 2 M 8 P Q 7 2 R 1 S 9
5 N 4 H 9 B 4 9 6 P A 5
21. (d) 8 A C F 4 2 M 8 P Q 2 R S N 4 H B 4
6 P A

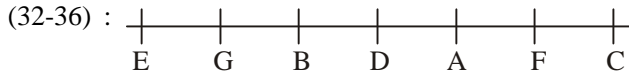


22. (b)
23. (c)
24. (a)
25. (d)
26. (b)
27. (a) $E > B > C > A > D$
65
28. (a) $E > B > C > A > D$
65

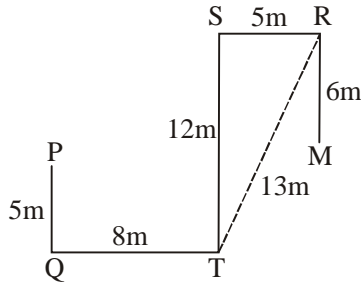


29. (a)
30. (b)
31. (c)

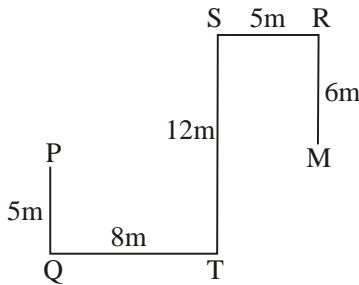
29. (b)
30. (c)
31. (a)



32. (c)
33. (c)
34. (d)
35. (b)
36. (a)
37. (a)



(38-40) :



38. (c)
39. (b)
40. (d)

41. (b) $\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$
 $\Rightarrow \frac{12 \times 64}{1} = \frac{16 \times D_2}{\frac{2}{3}}$

$\Rightarrow D_2 = 32$

42. (b) Let ages of P and Q after 2 years will be $5x$ years and $4x$ years respectively According to question $5x - 4x = 4$
 $\Rightarrow x = 4$
 Hence, the age of Q after 2 years = $4x = 4 \times 4 = 16$ years.
 43. (a) Let the income of B = Rs. $100x$, then the income of A = $100x + 20\%$ of $100x =$ Rs. $120x$

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Total expenditure of A and B = 30% of $(100x + 120x) = 66x$

According to question $66x = 26400$

$\Rightarrow x = \frac{26400}{66} = 400$

Hence, the income of B = $100x = 100 \times 400 =$ Rs. 40000.

44. (d) Let each of A and B invested Rs. 100 and the rate of interest = 1%, then Simple interest of A

$= \frac{100 \times 1 \times t}{100} = t \left(SI = \frac{PRT}{100} \right)$

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$= \frac{100 \times 1 \times (t+4)}{100} = (t+4) \left(SI = \frac{PRT}{100} \right)$

According to question

$\frac{t}{1} = \frac{t+4}{2}$

$\Rightarrow t = 4$

45. (b) Let the required time = t seconds, then
 $72 \times 30 = 54 \times t$ (Distance = Speed \times Time)
 $\Rightarrow t = 40$
 46. (d) 50% of 24% of ? = 6
 $\Rightarrow 0.5 \times 0.24 \times ? = 6$
 $? = 50$
 Hence the answer is d.
 47. (e) $? = \sqrt{400} + (5 + 2)^2 = 20 + 49 = 69$
 Hence the answer is e.

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48. (c) $\sqrt{? \times 8} = \frac{1}{2}$ of 16^2

$\Rightarrow \sqrt{? \times 8} = 128$

Squaring on both sides, we get

$? \times 8 = 128^2$

$\Rightarrow ? = 2048$

Hence, the answer is c.

49. (a) $192 \times 4 = ?^2 - \sqrt{256}$
 $\Rightarrow 768 = ?^2 - 16$
 $\Rightarrow ?^2 = 768 + 16 = 784 = 28^2$
 $\Rightarrow ? = 28$

Hence, the answer is a.

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50. (d) $? = 18 \frac{1}{2} - 2 \frac{1}{4} + 3^3 = \frac{37}{2} - \frac{9}{4} + 27$

$= \frac{74 - 9 + 108}{4} = \frac{173}{4} = 43.25$

Hence, the answer is d.

51. (c)

Family	TV shows
A	28
B	24
C	20
D	25
E	35
Total	132

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Total number of TV shows watched in the month = $28 + 24 + 20 + 25 + 35 = 132$
Hence, the answer is option c.

52. (e)

Family	TV shows
A	28
B	24
C	20
D	25
E	35
Total	132

শ্রুতিভঙ্গ

Difference of the number of TV shows watched by families A and C
= $28 - 20 = 8$
Difference of the number of TV shows watched by families B and D
= $25 - 24 = 1$
Required sum = $8 + 1 = 9$
Hence, the answer is option e.

53. (c)

Family	TV shows
A	28
B	24
C	20
D	25
E	35
Total	132

শ্রুতিভঙ্গ

Average of the number of TV shows watched by families C, A and B
= $\frac{20+24+28}{3} = 24$
Average of the number of TV shows watched by families D and E
= $\frac{25+35}{2} = 30$
Required Ratio = $24 : 30 = 4 : 5$
Hence, the answer is option c.

54. (b)

Family	TV shows
A	28
B	24
C	20
D	25
E	35
Total	132

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Difference between the number of TV shows watched by families A and C = $28 - 20 = 8$
Sum of the number of TV shows watched by families D and E together = $25 + 35 = 60$
Required percentage

$$= \frac{8}{60} \times 100 = 13\frac{1}{3}\%$$

Hence, the answer is option b.

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55. (a)

Family	TV shows
A	28
B	24
C	20
D	25
E	35
Total	132

Difference of the average of the number of TV shows watched by families D and C and half of the number of TV shows watched by family E

$$= \frac{20+25-35}{2} = 5$$

Required percentage

$$= \frac{24-5}{5} \times 100 = 380\%$$

Hence, the answer is option a.

56. (b) $24 + 22 \div 0.25 = ? \times 28$

$$\Rightarrow 24 + 88 = ? \times 28$$

$$\Rightarrow 112 = ? \times 28$$

$$\Rightarrow ? = 4$$

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Hence, the answer is b.

57. (e) $? = 31.5 \div 3.5 \times 12 - 8 = 9 \times 12 - 8 = 100$

Hence, the answer is e.

58. (a) $2^4 \times 3^3 \div (96 \div ?) = \sqrt{324}$

$$\Rightarrow 432 \div (96 \div ?) = 18$$

$$\Rightarrow 24 = 96 \div ?$$

$$\Rightarrow ? = 4$$

Hence, the answer is a.

59. (d) $\left(4\frac{1}{8} + 6\right) \times 16 = ? \times 9$

$$\Rightarrow \left(\frac{33}{8} + 6\right) \times 16 = ? \times 9$$

$$\Rightarrow \frac{81}{8} \times 16 = ? \times 9$$

$$\Rightarrow 162 = ? \times 9$$

$$\Rightarrow ? = 18$$

Hence, the answer is d.

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60. (c) $\sqrt{484} + \sqrt{?} = \sqrt{2304}$

$\Rightarrow 22 + \sqrt{?} = 48$

$\Rightarrow 22 + \sqrt{?} = 48 - 22$

$\Rightarrow \sqrt{?} = 26$

$\Rightarrow ? = 26^2 = 676$

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61. (a) Sum of the number of clothes dry cleaned by M on Tuesday and Wednesday = $75 + 95 = 170$

Sum of the number of clothes dry cleaned by L on Wednesday and Thursday = $85 + 25 = 110$

Required Ratio = $17 : 11$

Hence, the answer is option a.

62. (d) Sum of the number of clothes dry cleaned by O on Monday and

Thursday = $40 + 115 = 155$

Difference of the number of clothes cleaned by N on Monday and Wednesday = $100 - 35 = 65$

Required difference = $155 - 65 = 90$

Hence, the answer is option d.

63. (b) Sum of the number of clothes dry cleaned by N on Tuesday, Wednesday and Thursday = $55 + 35 + 60 = 150$

Clothes dry cleaned by O on all the days = $40 + 90 + 60 + 115 + 70 = 375$

Required percentage = $\frac{150}{375} \times 100 = 40\%$

Hence, the answer is option b.

64. (e) Total number of clothes dry cleaned by all the shops together on Monday

= $50 + 80 + 100 + 40 = 270$

Similarly, for all the days total number of clothes dry cleaned by all the shops is calculated and it is shown in the table below:

Shop/Days	Monday	Tuesday	Wednesday	Thursday	Friday
L	50	60	85	25	110
M	80	75	95	120	105
N	100	55	35	60	45
O	40	90	60	115	70
Total	270	280	275	320	330

The most number of clothes were dry cleaned on Friday.

Hence, the answer is option e.

65. (b) Number of clothes dry cleaned by L on all the days put together = $50 + 60 + 85 + 25 + 110 = 330$

Similarly, for all the shops total number of clothes dry cleaned on all the days is calculated and it is shown in the table below:

Shop/Days	Monday	Tuesday	Wednesday	Thursday	Friday	Total
L	50	60	85	25	110	330
M	80	75	95	120	105	475
N	100	55	35	60	45	295
O	40	90	60	115	70	375

66. (c) $4\frac{2}{3} \times \frac{2}{7} + ? = 9$

$\Rightarrow \frac{14}{3} \times \frac{2}{7} + ? = 9$

$\Rightarrow ? = 9 - \frac{4}{3}$

$\Rightarrow ? = 7\frac{2}{3}$

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67. (a) $\Rightarrow 299 \div 13 \times ? = 127 - 35$

$\Rightarrow 23 \times ? = 127 - 35$

$\Rightarrow 23 \times ? = 92$

$\Rightarrow ? = 92 \div 23$

$\Rightarrow ? = 4$

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68. (b) $38^2 + 5^2 - 173 = 6^?$

$\Rightarrow 1444 + 25 - 173 = 6^?$

$\Rightarrow 1296 = 6^?$

$\Rightarrow ? = 4$

69. (b) $4225 \div (? + 17) = 13^2$

$\Rightarrow 4225 \div 13^2 = (? + 17)$

$\Rightarrow 25 = (? + 17)$

$\Rightarrow ? = 8$

70. (c) ? % of $450 + 1740 = 2100$

$\Rightarrow ? \% \text{ of } 450 = 2100 - 1740$

$\Rightarrow ? \% \text{ of } 450 = 360$

$\Rightarrow ? = \frac{360}{450} \times 100$

$\Rightarrow ? = 80$

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71. (c) Let the cost price of the article = Rs. $100x$, then Marked price of the article = $100x + 50\%$ of $100x = 150x$

Selling price of the article = Rs. $(150x - 50)$

According to question Profit = SP - CP

$50 = (150x - 50) - 100x$

$\Rightarrow 50 = 50x - 50$

$\Rightarrow 50x = 100$

$\Rightarrow x = 2$

Hence, the marked price of the article = Rs.

$150x = 150 \times 2 = \text{Rs. } 300.$

72. (d) Distance = Speed \times Time

The distance travelled in downstream direction

= $14 \times 6 = 84 \text{ km}$

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<p>The distance travelled in upstream direction = $10 \times t = 10t$ km According to question $84 - 10t = 44$ $\Rightarrow 10t = 84 - 44 = 40$ $\Rightarrow t = \frac{40}{10} = 4$</p>	<p>From equations (i) and (ii), we get $86 - A = A - 22$ $\Rightarrow 2A = 86 + 22$ $\Rightarrow A = \frac{108}{2} = 54$</p>
<p>73. (c) As both A and B invested for the same time period, then Ratio of their profit = Ratio of their investment $\frac{X}{3200} = \frac{(X+800)}{(6800-3200)}$ $\Rightarrow \frac{X}{3200} = \frac{(X+800)}{3600}$ $\Rightarrow 9X = 8(X + 800)$ $\Rightarrow X = 8 \times 800 = 6400$</p>	<p>76. (d) The pattern of the series is: $3 + 3^2 = 12$ $12 + 5^2 = 37$ $37 + 7^2 = 86$ $86 + 9^2 = 167$ $167 + 11^2 = 288$</p>
<p>74. (a) Let the radius of the circle = r cm, then Length of the rectangle = Diameter of circle = $2r$ cm Breadth of the rectangle = Half of the diameter of circle = r cm According to question Circumference of a circle - Perimeter of rectangle = 2 cm $2\pi r - 2(2r + r) = 2$ $\Rightarrow \pi r - 3r = 1$ $\Rightarrow r\left(\frac{22}{7} - 3\right) = 1$ $\Rightarrow r = 7$</p>	<p>77. (a) The pattern of the series is: $1920 \div 10 = 192$ $192 \div 8 = 24$ $24 \div 6 = 4$ $4 \div 4 = 1$ $1 \div 2 = 0.5$</p>
<p>75. (c) Let the present age of A = A years and present age of B = B years, then $(A + 10) + (B + 10) = 106$ $\Rightarrow B = 106 - 10 - 10 - A = 86 - A$ (i) According to question $A - 6 = B + 16$ $\Rightarrow B = A - 6 - 16 = A - 22$ (ii)</p>	<p>78. (e) The pattern of the series is: $100 + 19 \times 1 = 119$ $119 - 19 \times 2 = 81$ $81 + 19 \times 3 = 138$ $138 - 19 \times 4 = 62$</p> <p>79. (c) The pattern of the series is: $1.1 + 1.3 = 2.4$ $2.4 + 1.5 = 3.9$ $3.9 + 1.7 = 5.6$ $5.6 + 1.9 = 7.5$</p> <p>80. (b) The pattern of the series is: $7 \times 2 + 1 = 15$ $15 \times 2 + 1 = 31$ $31 \times 2 + 1 = 63$ $63 \times 2 + 1 = 127$ $127 \times 2 + 1 = 255$</p>

