IBPS RRB Clerk 2022

Solution of 80 Most Important Questions for Prelims

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Solutions

1. Ans. (B)
The pattern is:
$5^3 - 1 = 124$
$6^3 - 3 = 213$
$7^3 - 5 = 338$
$8^3 - 7 = 505$
$9^3 - 9 = 720$
$10^3 - 11 = 989$

2. Ans. (C)
$1 + 4 = 5$
$5 + 8 = 13$
$13 + 16 = 29$
$29 + 32 = 61$
$61 + 64 = 125$
$125 + 128 = 253$

3. Ans. (D)
The pattern of the number series is :
$13 \times 1 + 2 = 15$
$15 \times 2 + 3 = 33$
$33 \times 3 + 4 = 103$
$103 \times 4 + 5 = 417$
$417 \times 5 + 6 = 2091$
So 419 should be replaced by 417 for which
$103 \times 4 + 5 = 417$

4. Ans. (A)
$34*1.5 = 51$
$51*2 = 102$
$102*2.5 = 255$
$255*3 = 765$
$765*3.5 = 2677.5$

5. Ans. (B)
2, 3, 5, 9, (17), 33, 65
+1 +2 +4 +8 +16 +32

6. Ans. (A)
The required Average
$$= \frac{664+618+628+552+638+419}{6}$$
$$= \frac{3519}{6} = 586.5$$
Thus, the Average number of pages printed by all printers in the first week is 586.5.
Hence, option A is correct.

7. Ans. (B)
The required Average
$$= \frac{628+519+503+317+598}{5}$$
$$= \frac{2595}{6} = 519$$
Thus, the Average number of pages printed by printer C taking all the weeks together is 519.
Hence, option B is correct.

8. Ans. (E)
Number of printed pages in first week = 664 + 618 + 628 + 552 + 638 + 419
= 3519
Number of printed pages in second week = 569 + 441 + 519 + 438 + 621 + 437
= 3025
Number of printed pages in third week = 440 + 614 + 503 + 527 + 541 + 742
= 3367
Number of printed pages in fourth week = 256 + 563 + 347 + 651 + 412 + 321
= 2550
Number of printed pages in fifth week = 717 +429 + 598 + 582 + 519 + 693
= 3538
Therefore, 3538 > 3519 > 3367 > 3025 > 2550
Thus,
In fifth week the number of printed pages was maximum, i.e, 3538.
Hence, option E is correct.

9. Ans. (D)
Number of pages printed by printer A in second week = 569
Number of pages printed by printer E in second week = 621
Therefore,
The required difference = 621 – 569 = 52
Thus, the difference between the pages printed by printers A and E in the second week is 52
Hence, option D is correct.

10. Ans. (B)
Total pages printed by printers B in all weeks = 618 + 519 + 614 +563 + 429 = 2665
Total pages printed by printers C in all weeks = 628 + 441 + 503 +347 + 598 = 2595
Therefore, The required difference = 2665 – 2595 = 70
Thus, the difference between the total pages printed by printers B and C (after weeks taken together) is 70
Hence, option B is correct.

11. Ans. (A)
Total runs scored by India and Pakistan in Match 4
= (210+340) = 550
Total runs scored by Bangladesh in all the five matches
= (180+220+280+260+160) = 1100
Required percentage = (550*100)/1100 = 50%

12. Ans. (C)
Difference between the runs scored by Pakistan and Bangladesh in Match-1
= (320-180) = 140
Difference between the runs scored by Pakistan and Bangladesh in Match-2
= (480-220) = 260
Difference between the runs scored by Pakistan and Bangladesh in Match-3

= (410-280) = 130
Difference between the runs scored by Pakistan and Bangladesh in Match-4
= (340-260) = 80
Difference between the runs scored by Pakistan and Bangladesh in Match-5
= (380-160) = 220
Second lowest is in Match-3

13. Ans. (B)
Total runs scored by India and Bangladesh together in Match-1
= (420+180) = 600
Total runs scored by India and Bangladesh together in Match-2
= (280+220) = 500
Total runs scored by India and Bangladesh together in Match-3
= (320+280) = 600
Total runs scored by India and Bangladesh together in Match-4
= (210+260) = 470
Total runs scored by India and Bangladesh together in Match-5
= (240+160) = 400
So third highest/ lowest is Match-2

14. Ans. (C)
Total runs scored by India in Match 5 = 240
Total runs scored by Pakistan in Match 1 = 320
Total runs scored by Bangladesh in Match 2 = 220
Required ratio = 240:320:220 = 12:16:11

15. Ans. (A)
Total runs scored by all the three teams in Match 3
= (320+410+280) = 1010
Average runs scored by all the three teams in Match 3
= 1010/3 = 337

16. Ans. (C)
(445895 ÷ 89) ÷ (1618 ÷ 44.8)
=5010 ÷ (1618 ÷ 45)
= 5010 ÷ 36
= 139.17≈139

17. Ans. (B)
1546.25 + 3064.98 ÷ 15.007 = ? × √25.25
Let,
1546.25 ≈ 1546, 3064.98 ≈ 3065, 15.007 ≈ 15, √25.25 ≈ √25 = 5
⇒1546 + 3065 ÷ 15 = ? × 5

$$\Rightarrow 1546 + \frac{3065}{15} = ? \times 5$$

⇒1546 + 204 = ? × 5
⇒1750 = ? × 5

$$\Rightarrow ? = \frac{1750}{5} = 350$$

⇒ ? = 350
Hence option B is the right answer.

18. Ans. (E)

$$? = \frac{1.31}{100} \times 1215 + \frac{0.73}{100} \times 1150$$

$$? = \frac{1}{100}[1.31 \times 1215 + 0.73 \times 1150]$$

$$= \frac{1}{100}[1591.65 + 839.5]$$

$$= \frac{2431.15}{100} \approx 24$$

19. Ans. (A)

$$2136 - \sqrt[2]{?} = 1972$$

$$\sqrt[2]{?} = 1972 - 2136 = 164$$

? = (164)² = 26896

20. Ans. (B)
1562 ÷ 24% of 356 = ?
Approximates value can be calculated as
≈ 1560 ÷ 25% of 356
≈ 1560 ÷ 89 = 17.52 ≈ 18
Hence, option (B) is correct.

21. Ans. (D)

$$\frac{3}{5} \times \frac{1125}{1228} \times 7 = ?$$

$$? = 7 \times \frac{3}{5} \times \frac{1125}{1228}$$

$$? \approx 7 \times \frac{225}{409}$$

$$? \approx \frac{1575}{409} \approx 4$$

22. Ans. (D)
26 × 236 × 4 /100 = 245.44
Approx. value can be ≈ 250

23. Ans. (D)
1127 × 1373 ÷ 16.5 of 3450 + 1250
=> 1127 × 1373 ÷ 56925 + 1250
=> 1277

24. Ans. (A)
Using approximation
5000 * 15 ÷ 25 + ? = 144 * 25
3000 + ? = 3600
? = 600
Hence, the correct option is (a).

25. Ans. (C)

$$? = \frac{\frac{25}{2} \times \frac{29}{2} + \frac{25}{2}}{}$$

$$? = \frac{25}{2} \times \frac{31}{2} = \frac{775}{4} = 193.75 \approx 194$$

26. Ans. (D)

I. $x^2 + 2x - 195 = 0$
(x+15) (x-13)
x = 13, -15
II. $y^2 + 30y + 225 = 0$
(y+15) (y+15)
y = -15, -15
x ≥ y

27. Ans. (C)

I. $2x^2 - 21x + 54 = 0$
(x - 6)(2x - 9)
x = +6, +9/2
II. $y^2 - 14y + 49 = 0$
(y-7) (y-7)
y = +7, +7
y > x

28. Ans. (D)

I. $12x^2 + 17x + 6 = 0$
(3x+2) (4x+3)
x = -3/4, - 2/3
II. $20y^2 + 47y + 24 = 0$
(4y+3)(5y+8)
y = - 8/5, - 3/4
x ≥ y

29. Ans. (B)

I. $36x^2 = 1$
x = -1/6, +1/6
II. $4y^2 + 13y + 3 = 0$
(y+3) (4y+1)
y = -3, -1/4
x > y

30. Ans. (A)

I. $x^2 + 2x + 1 = 0$
(x+1) (x+1)
x = -1
II. $y^2 = 9$
y = -3, 3
So no relation

31. Ans. (D)

Speed of boat in still water = (115+120)/2 = 117.5

32. Ans. (B)

We have,

$$P = \frac{SI \times 100}{T \times R} = \frac{3584 \times 100}{4 \times 7} = Rs.\,12800$$

Now,

$$CI = P\left[\left(1 + \frac{R}{100}\right)^T - 1\right]$$

$$= 12800\left[\left(1 + \frac{4}{100}\right)^2 - 1\right]$$

$$= 12800\left[\left(\frac{26}{25}\right)^2 - 1\right]$$

$$= 12800\left(\frac{676}{625} - 1\right) = \frac{12800 \times 51}{625} = Rs.\,1044.48$$

Hence, option B is correct.

33. Ans. (D)

Quantity of Milk in original solution = $\frac{2}{5} \times 120$ = 48

liters and quantity of water = 120 – 48 = 72 liters

Percentage of milk in new solution = $\frac{48}{120 + 40} \times 100$

= 30%

34. Ans. (C)

A : B : C = 12800 : 16800 : 9600 = 16 : 21 : 12
Sum of the ratio term = 16 + 21 + 12 = 49
Let the total profit be ₹ x. Therefore,

B's share = $\frac{21}{49} \times x = \frac{21x}{49}$

$$\frac{21x}{49} = 13125 \quad \Rightarrow \quad x = \frac{13125 \times 49}{21} = 30625$$

∴ C's share = $\frac{12}{49} \times 30625 = 7500$

Thus, the share of Mr C in the profit is ₹7500.
Hence, option C is correct.

35. Ans. (A)

Let 8 years ago,
Shekher's age be x.
Therefore, Vishal's age = 4x
After 8 years,
Shekher's age = x + 16 years
Vishal's age = 4x + 16 years
Therefore,
4x +16 = 2(x + 16)
4x +16 = 2x + 32
2x = 16
x = 8
Thus, Vishal's present age = 4 × 8 + 8 = 40 years
Hence, option A is correct.

36. Ans. (D)
if this is to be solved by conventional method it will be a tedious work,
Traditional method:
Let the CP= X
According to question- X + X% of X =75

$$x + \frac{x^2}{100} = 75 \rightarrow 100x + x^2 = 7500 \rightarrow x^2 + 100x - 7500 = 0$$

On solving this we get

$$x = 50 \text{ and } x = -150$$

BY Options:
a) 70 + 70% of 70 = 119, b) 55 + 55% of 55=85.25 c) 60 + 60% of 60 =96 , d) 50 + 50% of 50 = 75

37. Ans. (D)

Speed of the tractor = $\frac{270}{15} = 18$ km/h

Speed of the train = $\frac{13}{3} \times 18 = 78$ km/h

Distance covered by the train in 12 hours
= 78 × 12 = 936 km

38. Ans. (D)
Let the work be completed in x days
Then ATQ,

$$\frac{x}{18} + \frac{x-3}{36} = 1$$

=> x = 13 days

39. Ans. (D)
For being both ball Yellow, the
Required Probability = $6C_2/(4+6+8)C_2$
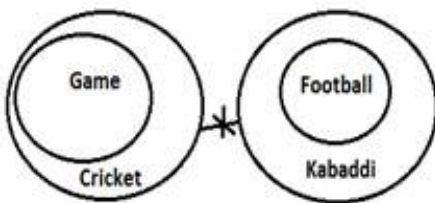
$$= \frac{\frac{6*5}{2}}{\frac{18*17}{2}} = \frac{30}{18*17} = \frac{5}{51}$$

40. Ans. (D)

Radius of smaller circle= $\frac{132 \times 7}{44} = 21m$

Radius of larger circle= $\frac{176 \times 7}{44} = 28m$
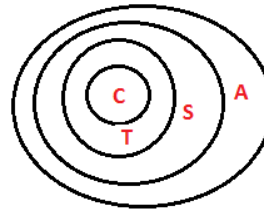
Required difference = π $(28)^2$ – π $(21)^2$ = 1078
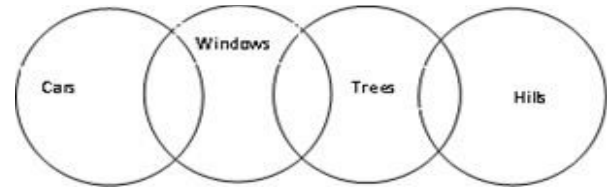
41. Ans. (A)

Hence, only (I) conclusion follows.

42. Ans. (B)

43. Ans. (C)

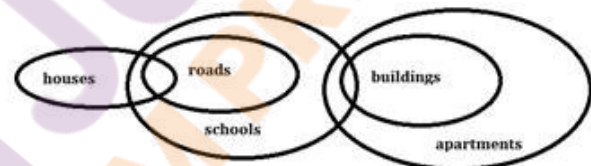**44. Ans. (E)**

45. Ans. (E)
Only I and II follow

46. Ans. (B)
P ≤ Q = R > S > T
For conclusion I:
I. P < T (false) no relation between P & T
For conclusion II:
Q = R > S > T
II. T < Q (true) T is smalller than Q
Hence, only conclusion II follows

47. Ans. (A)
L ≤ M < N > O = P
For conclusion I -
N > O = P
I. P < N (true)
For conclusion II -
M < N > O
II. O < M (false)
Hence, only conclusion I follows

48. Ans. (A)
J > K ≤ L = M < N
Conclusions:
I. K < N (true)
K ≤ L = M
II. K < M (false) Here, K is either smaller or equal to M.
So, this is not true.
Hence, the only conclusion I follows.

49. Ans. (C)
P ≤Q = R, T > R = S
by combining both the statement we get,
P ≤ Q = R = S < T
For both the conclusion,
P ≤Q = S < T
P ≤ S
I. P = S
II. P < S
So, both the conclusion make complementary pairs, hence either I or II conclusion follows.

50. Ans. (A)
P ≤ Q = R, T > R = S
by combining both the statement we get,
P≤ Q = R = S < T
For Conclusion I,
Q < T
I. Q < T (true)
For conclusion II, we get
P ≤ S

II. P < S (false)
Hence, only conclusion I follows

51. Ans. (D)
There are 3 such combinations – DF1, MJ3, NP8.

52. Ans. (E)
There are 4 such combinations – V2E, F1U, J32, P8Z.

53. Ans. (C)
There are 2 such combinations – U#, I ©.

54. Ans. (A)
Except PV#, every other combination has a gap of one position between first two letter and gap of two position in last 2 letter in the arrangement.

55. Ans. (A)
Fifth to the left of the fifteen from the right end means - 5 + 15 = 20th element from right end which is U.
3 P I V 2 E 9 # D F 1 U # B % 8 J I © W M J 3 2 V @ 5 N P 8 Z

56. Ans. (B)

enjoy	the	places	of	India	neat	and	clean	is	country	enviourment
Pi/ba	Pi/ba	da	ni	ea	ma	ri	la	Ki/sa	Ki/sa	zi

57. Ans. (C)

enjoy	the	places	of	India	neat	and	clean	is	country	enviourment
Pi/ba	Pi/ba	da	ni	ea	ma	ri	la	Ki/sa	Ki/sa	zi

58. Ans. (A)

enjoy	the	places	of	India	neat	and	clean	is	country	enviourment
Pi/ba	Pi/ba	da	ni	ea	ma	ri	la	Ki/sa	Ki/sa	zi

59. Ans. (D)

enjoy	the	places	of	India	neat	and	clean	is	country	enviourment
Pi/ba	Pi/ba	da	ni	ea	ma	ri	la	Ki/sa	Ki/sa	zi

60. Ans. (B)

enjoy	the	places	of	India	neat	and	clean	is	country	enviourment
Pi/ba	Pi/ba	da	ni	ea	ma	ri	la	Ki/sa	Ki/sa	zi

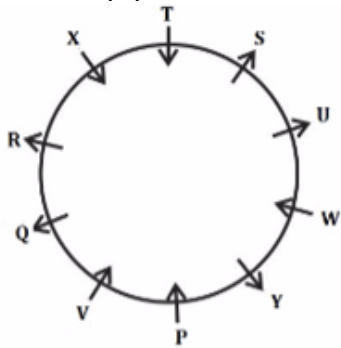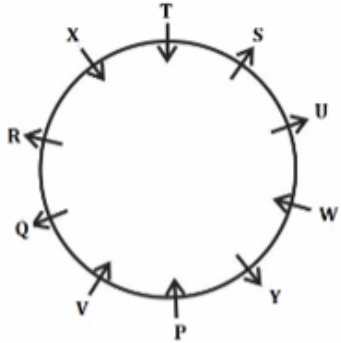**61. Ans. (E)**
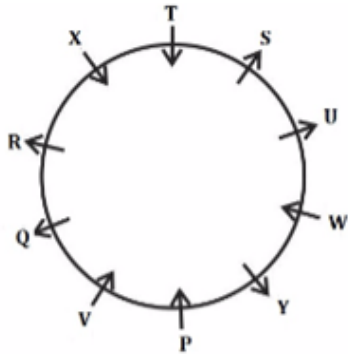
62. Ans. (C)
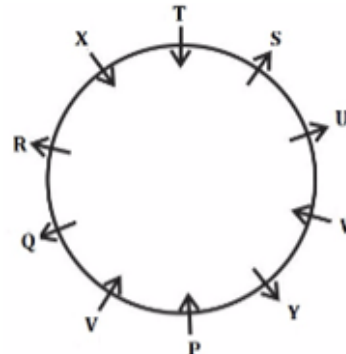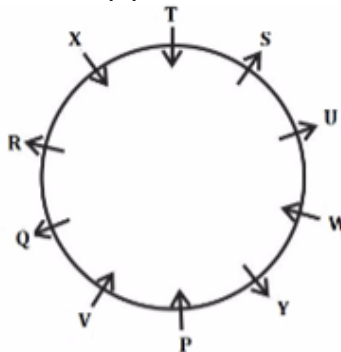
63. Ans. (D)

64. Ans. (D)

Facing opposite direction

65. Ans. (B)

66. Ans. (B)

Deepa is sitting at one of the extreme end
The correct sequence is as follows

Person	Abhinav	Chetna	Esha	Gagan	Balram	Furkan	Harshit	Deepa
Direction	North	South	North	South/North	North/South	South	South	South

Sitting direction of Balram and Gagan can't be determined.

67. Ans. (E)

Balram & Gagan sits in the middle

Person	Abhinav	Chetna	Esha	Gagan	Balram	Furkan	Harshit	Deepa
Direction	North	South	North	South/North	North/South	South	South	South

Sitting direction of Balram and Gagan can't be determined.

68. Ans. (E)

Four persons are facing south. We don't have any information regarding Balram and Gagan.

Person	Abhinav	Chetna	Esha	Gagan	Balram	Furkan	Harshit	Deepa
Direction	North	South	North	South/North	North/South	South	South	South

Sitting direction of Balram and Gagan can't be determined.

69. Ans. (B)

Abhinav sits adjacent to Chetna

Person	Abhinav	Chetna	Esha	Gagan	Balram	Furkan	Harshit	Deepa
Direction	North	South	North	South/North	North/South	South	South	South

Sitting direction of Balram and Gagan can't be determined.

70. Ans. (D)

Present Arrangement: Abhinav Chetna Esha Gagan Balram Furkan Harshit Deepa
Changed Arrangement: Harshit Gagan Furkan Esha Deepa Chetna Balram Abhinav
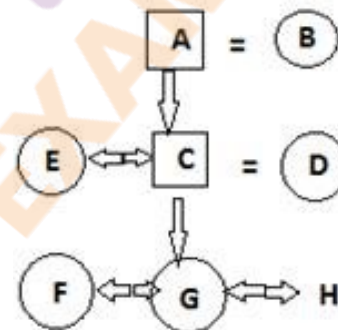None of the positions remain unchanged..
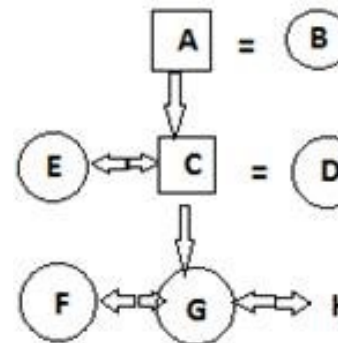The correct sequence is as follows

Person	Abhinav	Chetna	Esha	Gagan	Balram	Furkan	Harshit	Deepa
Direction	North	South	North	South/North	North/South	South	South	South

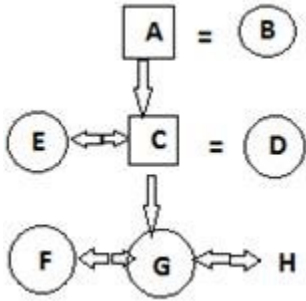Sitting direction of Balram and Gagan can't be determined.

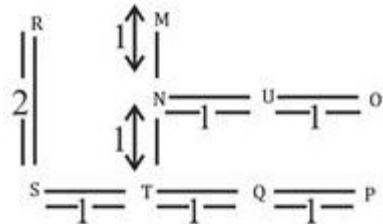**71. Ans. (A)**
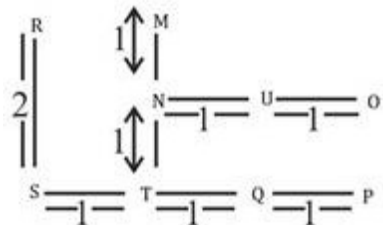

72. Ans. (D)

73. Ans. (A)

74. Ans. (A)
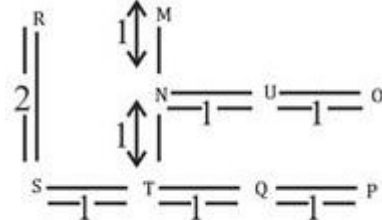The distance between Q and S is 2 km

75. Ans. (D)
The distance between M and R is 1 km

76. Ans. (C)
The distance between Q and U is 1 km

77. Ans. (D)
Q > M (20) > L > O(15) > N > P(9)

78. Ans. (B)
Q > M (20) > L > O(15) > N > P(9)

79. Ans. (E)

80. Ans. (E)
MEAT, TEAM, MATE, TAME

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