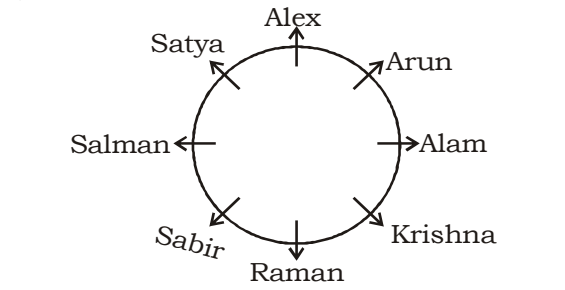
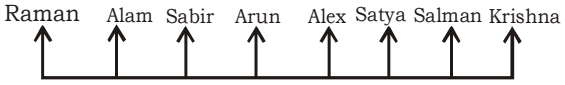
IBPS CLERK PHASE -I MOCK TEST - 169 (SOLUTION)

REASONING

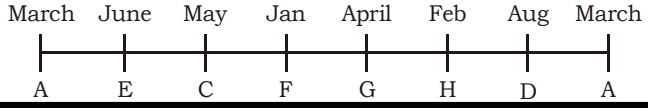
(1-5) :





1. (1) 2. (2) 3. (4)
4. (3) 5. (2)
6. (4) **Statements :**
   $S \le L \le I = P > E > R$ ...(i)
   $L > Q$ ...(ii)
   From (i), we get
   $S \le P$ or $P \ge S$. Thus, conclusion I is true. Again, $I > R$ is true. Hence both conclusion I and II are true.
7. (3) **Given statements :**
   $G > R \ge E = A \le T \le S$ ...(i)
   $D \le A \le J$ ...(ii)
   Combining (i) and (ii), we get
   $D \le A \le T$
   Thus, $D \le T$ or $T \ge D$. Hence I is true. Again, we can't compare R and S. Hence II ($R > S$) is not true.
8. (4) **Given statements :**
   $A \ge B > C \le D \le E < F$
   Thus, we can't compare A and E. Hence I ($A \le E$) is not true.
   Again, $C \ge F$ is true. Hence II is true.
9. (1) **Given statements :**
   $G > R \ge E = A < T < S$ ...(i)
   $D \le A \le J$ ...(ii)
   Combining (i) and (ii), we get
   $G > R \ge E = A \le J$
   Thus, we can't compare G and J. Hence neither I ($J > G$) nor II ($J = G$) is true.
10. (2) **Given statements :**
    $S < L < I = P \ge E > R$ ...(i)
    $L > Q$ ...(ii)
    Combining (i) and (ii), we get
    $Q < L < I = P \ge E$
    Thus, we can't compare E and Q. Hence II ($E \ge Q$) is not true. Again, we can't compare L and R. Hence I ($L < R$) is not true.

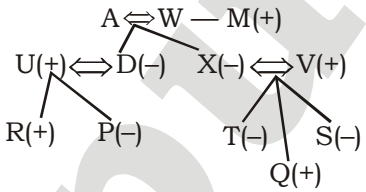
(11–15) :



11. (4) 12. (1) 13. (1)
14. (5) 15. (2)

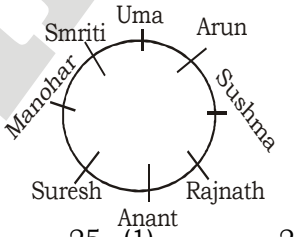
(16–20) :

Family tree



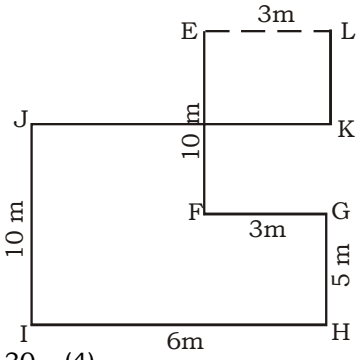
16. (2) 17. (1) 18. (3)
19. (4) 20. (3)
21 (4) colour sky high = ki la jo
22. (3) 'the' represents only 'so'.
23. (5) 'pe' represents 'rocket'.

(24-28) :

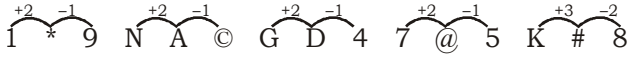


24. (3) 25. (1) 26. (4)
27. (3) 28. (5)

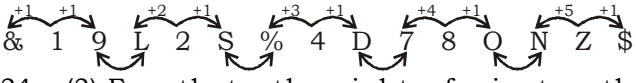
(29-30) :



29. (1) 30. (4)
31. (1) New arrangement is
    1 9 L B 2 S 6 E G 4 D **H** 7 5 K 8 Q N A 3 C Z U J.
    Hence thirteenth element from the right end is H.
32. (4)



33. (4)



34. (3) Fourth to the right of nineteenth element from the left and is (19 + 4 =) 23rd from left, i.e N.
35. (3) %EG, $UJ

MATHS

36. (4) ? = (4576 + 3286 + 5639) ÷ (712 + 415 + 212) = 13501 ÷ 1339 = 10.08 ≈ 10

37. (5) ? = 675.456 + 12.492 × 55.671
≈ 675 + 12.5 × 56
= 675 + 700 = 1375 ≈ 1371

38. (1) ? ≈ $(447)^2$ = 199809 ≈ 200000

39. (3) ? = $\frac{4374562 \times 64}{7777}$ = 35999.99 ≈ 36000

40. (2) ? = $\frac{659 \times 872}{100}$ ÷ 543 = 10.58 ≈ 11

41. (3) Work done by 1 man in 1 day = $\frac{1}{100}$

Work done by 1 women in 1 day = $\frac{1}{120}$

Work done by 15 men in and 6 women

$= \frac{15}{100} + \frac{6}{120}$

$= \frac{3}{20} + \frac{1}{20}$

$= \frac{4}{20} = \frac{1}{5}$ work

∴ 15 men and women will take 5 days to complete the work.

42. (1) Let the speed of second train be x kmph.
Speed of first train relative to second train = (120 – x) kmph

$= \left[(120 - x) \times \frac{5}{18}\right]$ m/sec

$= \left(\frac{600 - 5x}{18}\right)$

Distance covered = 100 + 200 = 300m

∴ $\frac{300}{\left(\frac{600 - 5x}{18}\right)} = 120$

⇒ $300 = \frac{120(600 - 5x)}{18}$

⇒ 10 × 9 = 2 (600 – 5x)

⇒ 90 = 1200 – 10x

⇒ 10x = 1200 – 90

⇒ $x = \frac{1110}{10} = 111$

Hence, the speed of second train is 111 kmph.

43. (1) Let the sum be ₹ x.

S.I. = ₹ $\frac{16x}{100}$

Rate = Time = R

∴ Rate = $\frac{\text{S.I.} \times 100}{\text{Principal} \times \text{Time}}$

⇒ R = $\frac{16x \times 100}{100x \times R}$

⇒ R^2 = 16

⇒ R = 4% Per annum

44. (1) Let expenditure be ₹ 60 and savings be ₹ 40.
Total income = ₹ 100
New income = ₹ 110
New expenditure = ₹ 67.2
New saving = 110 – 67.2
= ₹ 42.8
∴ Percentage increase in saving

$\frac{2.8}{40} \times 100 = 7\%$

45. (2) Area of 4 walls=2(16+7) × 8
So, 2(16+7) × 8 – 65 = 303
Cost = 303 × 7.5 = ₹ 2272.5

46. (2) The pattern is :

$\frac{1050 - 30}{2} = 510$

$\frac{510 - 26}{2} = 242$

$\frac{242 - 22}{2} = 110 \neq$ **106**

$\frac{110 - 18}{2} = 46$

$\frac{46 - 14}{2} = 16$

47. (1) The pattern is :
$550 - 2^2 = 550 - 4 = 546$
$546 - 3^2 = 546 - 9 = 537$
$537 - 4^2 = 537 - 16 = 521$
$521 - 5^2 = 521 - 25$
$= 496 \neq$ **494**
$496 - 6^2 = 496 - 36 = 460$

48. (3) The pattern is :
8 + 1 × 13 = 21
21 + 2 ×13 = 21 +26 = 47
47 + 3 × 13 = 47 + 39 = 86
86 + 4 × 13 = 86 + 52
= 138 ≠ **140**
138 + 5 × 13
= 138 + 65 = 203
203 + 6 × 13
= 203 + 78 = 281

49. (2) The pattern is :
4 × 8 – 8 = 32 – 8 = 24
24 × 7 – 7 = 168 – 7 = 161
161 × 6 – 6 = 966 – 6
= 960 ≠ **965**
960 × 5 – 5 = 4800 – 5 = 4795

50. (3) The pattern is :
1 × 2 = 2
2 × 3 = 6 ≠ **8**
6 × 4 = 24

$24 \times 5 = 120$
$120 \times 6 = 720$
$720 \times 7 = 5040$

51. (5) Income of company C in the year 2018 = ₹ 300000 and expenditure = ₹ 200000
∴ Percentage profit got by the company
$= \frac{\text{Profit}}{\text{Income}} \times 100\%$
$= \frac{100000}{300000} \times 10\% = 33\frac{1}{3}\%$

52. (1) Total income of all the three companies in the year 2014 = ₹ (260 + 340 + 480) thousand = ₹ 1080 thousand and in the year 2017
= ₹ (160 + 310 + 440) thousand
= ₹ 910 thousand.
∴ Required ratio = 1080 : 910 = 108 : 91

53. (2) Total income of company B in all the given years together
= ₹ (340 + 490 + 540 + 310 + 450) thousand
= ₹ 2130 thousand
∴ Average income of company B
$= ₹ \frac{2130 \text{ thousand}}{5} = ₹ 426 \text{ thousand}$

54. (5) in the year 2019,
income of company A = 105% of 560
= ₹ 588 thousand
income of company B = 106% of 450
= ₹ 477 thousand
income of company C = 107% of 300
= ₹ 321 thousand
Thus, total income of all the three companies in the year 2019
= ₹ (588 + 477 + 321) thousand
= ₹ 1386 thousand

55. (1) Distance covered by 1st car
= {36 × (5/18) ×15} = 150m
Distance covered by 2nd car
= {48 × (5/18) × 15} = 200m
Since these two cars are at right angle.
So, the distance between two cars is
= 250 km

56. (5) I. $\Rightarrow p^2 + 3p + 2p + 6 = 0$
$\Rightarrow p(p + 3) + 2(p + 3) = 0$
$\Rightarrow (p + 3)(p + 2) = 0$
$\Rightarrow p = -2$ or -3
II. $\Rightarrow q^3 + q + 2q + 2 = 0$
$\Rightarrow q(q + 1) + 2(q + 1) = 0$
$\Rightarrow (q + 1)(q + 2) = 0$
$\Rightarrow q = -1$ or -2
Obviously $p \leq q$

57. (4) I. $p = \pm 2$
II. $q^2 + 2q + 2q + 4 = 0$
$\Rightarrow q(q + 2) + 2(q + 2) = 0$
$\Rightarrow (q + 2)(q + 2) = 0$
$\Rightarrow q = -2$
Obviously, $p \geq q$

58. (2) I. $\Rightarrow p^2 + p - 56 = 0$
$\Rightarrow p^2 + 8p - 7p - 56 = 0$
$\Rightarrow p(p + 8) - 7(p + 8) = 0$
$\Rightarrow (p + 8)(p - 7) = 0$
$\Rightarrow p = 7$ or -8
II. $\Rightarrow q^2 - 8q - 9q + 72 = 0$
$\Rightarrow q(q - 8) - 9(q - 8) = 0$
$\Rightarrow (q - 8)(q - 9) = 0$
$\Rightarrow q = 8$ or 9
Obviously, $p < q$

59. (1) We have,
$3p + 2q = 58$ ...(i)
$4p + 4q = 92$
$\Rightarrow 2p + 2q = 46$ ...(ii)
By equation (i) – (ii) we get $p = 12$
From equation (i), $3 \times 12 + 2q = 58$
$\Rightarrow 2q = 58 - 36 = 22$
$\Rightarrow q = 11$
Hence, $p > q$

60. (2) I. $\Rightarrow 3p^2 + 15p + 2p + 10 = 0$
$\Rightarrow 3p(p + 5) + 2(p + 5) = 0$
$\Rightarrow (p + 5)(3p + 2) = 0$
$\Rightarrow p = -5$ or $-\frac{2}{3}$
II. $\Rightarrow 10q^2 + 5q + 4q + 2 = 0$
$\Rightarrow 5q(2q + 1) + 2(2q + 1) = 0$
$\Rightarrow (2q + 1)(5q + 2) = 0$
$\Rightarrow q = -\frac{1}{2}$ or $-\frac{2}{5}$
Obviously, $p < q$

61. (3) Total equivalent capital of A
$= 5x \times 12 + 8x \times 12 = ₹ 156x$
Total equivalent capital of B
$= 6x \times 24 = ₹ 144x$
Total equivalent capital of C
$= 8x \times 12 + 4x \times 12 = ₹ 144x$
∴ Required ratio = A : B : C
$= 156x : 144x : 144x$
$= 13 : 12 : 12$

62. (1) ∵ 12 men can complete the work in 36 days.
∴ 12 × 36 men can complete the work in 1 day.
Again,
∵ 18 women can complete the work in 60 days.
∴ 18 × 60 women can complete the work in 1 day.
Now, 12 × 36 men = 18 × 60 women
⇒ 2 men = 5 women
Now, 8 men + 20 women
= (4 × 5 + 20) women = 40 women
∵ 18 women complete the work in 60 days.
∴ 40 womens' 20 days' work
$= \frac{40 \times 20}{18 \times 60} = \frac{20}{27}$

$\therefore$ Remaining work = $1 - \frac{20}{27} = \frac{7}{27}$

$\therefore$ 18 × 60 women do 1 work in 1 day.

$\therefore$ 1 woman does = $\frac{1}{18\times60}$ Work in 1 day

$\therefore$ 1 woman does in 4 days

= $\frac{4}{18\times60} = \frac{1}{18\times15}$ Work

$\therefore$ $\frac{1}{18\times15}$ work is done in 4 days by 1 woman

$\therefore$ $\frac{7}{27}$ work is done in 4 days by = $\frac{18\times15\times7}{27}$

= 70 days

63. (2) Number of balls = 6 + 5 + 8 = 19
Exhaustive number of cases = Ways of selecting 4 balls out of 19

$= {}^{19}C_4 = \frac{19\times18\times17\times16}{1\times2\times3\times4} = 3876$

Favourable number of cases = Selecting 4 red balls or any two green balls out of the four = $6c_4 + 5c_2 \times 14c_2$

$= \frac{6\times5\times4\times3}{1\times2\times3\times4} + \frac{5\times4}{2} \times \frac{14\times13}{2}$

= 15 + 910 = 925

$\therefore$ Required probability

= $\frac{925}{3876}$

64. (5) Required difference

$= \left(\frac{7}{11}\times2 - \frac{4}{11}\times3\right)$

= $\frac{2}{11}$ × 73689 = ₹ 13398

65. (4) According to the question,

$\frac{A}{B} = \frac{4}{7}$ ... (i)

and $\frac{A\left(1+\frac{50}{100}\right)}{B\left(1-\frac{25}{100}\right)} = \frac{8}{7}$ ... (ii)

From equations (i) and (ii),
Total earnings of A and B are unknown.

66. (1) Marks obtained by Meera in total subjects

$= \frac{100\times60}{100} + \frac{80\times40}{100} + \frac{130\times50}{100}$

$+ \frac{150\times90}{100} + \frac{120\times90}{100} + \frac{80\times60}{100}$

= 448

67. (4) Marks obtained by all the seven students

= $\frac{40}{100}$(80 + 70 + 70 + 60 + 90 + 60 + 80)

= $\frac{40}{100}$ × 510 = 204

$\therefore$ Average marks = $\frac{204}{7}$ = 29.14

68. (2) Only two students, Kunal and Soni have got 60% or above marks in all subjects.

69. (3) Total marks obtained by Kunal

$= \frac{60\times90}{100} + \frac{40\times70}{100} + \frac{130\times60}{100} +$

$\frac{150\times90}{100} + \frac{120\times70}{100} + \frac{80\times70}{100}$

= 54 + 28 + 78 + 135 + 84 + 56 = 435

Total marks = 60 + 40 + 130 + 150 + 120 + 80 = 580

$\therefore$ Required percentage = $\frac{435}{580}$ × 100 = 75

70. (1)

ENGLISH LANGUAGE

71. (5) Refer the first sentence of the last paragraph.
72. (3) Refer the fourth sentence of the second paragraph
73. (5) It simply means that demand has no short-term effect on oil price.
74. (1) While option (i) has been contradicted in the last paragraph, there has not been any co-relation between renewable and non-renewable sources of energy in terms of price.
75. (3) Refer the last sentence of the second paragraph.
86. (1) Replace 'began' with 'begun' (have + v^3).
87. (1) Replace "in spite that" with 'though'.
89. (5) Replace 'invested' with 'investing'.
90. (4) Replace 'their' with 'its' (used for 'airline').

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Hitherto	until now	अब तक
Speculation	investment in stocks	सट्टेबाजी
Escalation	a rapid increase	अचानक बढ़ना
Manifold	many and various	विविध
Prosperity	the state of being prosperous	समृद्धि
Fluctuated	rise and fall irregularly	उतार-चढ़ाव
Exploration	investigation	अन्वेषण
Drastic	likely to have a strong or far-reaching effect	उग्र, सख्त
Inculcate	instill (an attitude, idea, or habit) by persistent instruction	मन में बैठाना
Fuelling	supply or power (an industrial plant, vehicle, or machine) with fuel	भड़काना
Instil	put (a substance) into something in the form of liquid drops	टपकाना
Dent	a slight hollow in a hard	गड्ढा, काटने का निशान
Compatibly	(of two things) able to exist or occur together without conflict	अनुकूल
Energise	give vitality and enthusiasm to	उत्साहित
Anesthetized	to make a person unable to feel pain	बेहोश कर देना
Sheer	unmitigated	परिपूर्ण
Enthusiast	a person who is highly interested in a particular activity or subject	उत्साहशील मनुष्य
Nourish	provide with the food or other substances necessary for growth, health, and good condition	पालन-पोषण करना

IBPS CLERK PHASE -I MOCK TEST - 169 (ANSWER KEY)

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

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