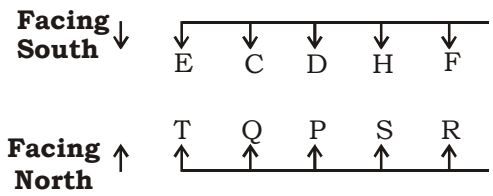
SBI CLERK SPECIAL PHASE - I - 294 (SOLUTION)

REASONING

(1-5):



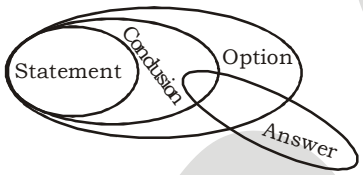
1. (2) 2. (3) 3. (4) 4. (1) 5. (1)

(6-10) :

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

6. (5) 7. (2) 8. (5) 9. (3) 10. (5)

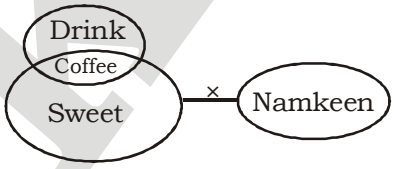
(11-12) :



11. (1) I. True II. Doubt.
Only conclusion I follows.

12. (5) I. True II. True
Both conclusion I and II follow.

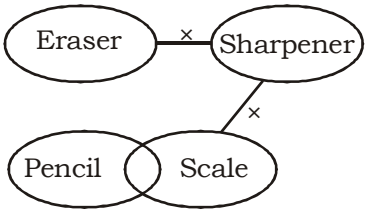
(13-14) :



13. (5) I. True II. True
Both Conclusion I and II follow.

14. (1) I. True II. False
Only conclusion I follows.

15. (1)



I. True II. Doubt.
Only conclusion I follows.

16. (2) **Given statements:**
$L > P \geq T = N$ … (i)
$R = T < Q \leq S$ …(ii)
Combining both statements, we get
$L > P \geq T = N = R = T < Q \leq S$
Thus, $L < Q$ is not true.
Again, $S > N$ is true.
And, $P \geq S$ is not true.
Hence, only II is true.

17. (3) **Given statements:**
$S < U = R \leq N$ … (i)
$B > X \geq W$ … (ii)
$S > J = W$ … (iii)
Combining all the statements, we get
$N \geq R = U > S > J = W \leq X < B$
Thus, $N > J$ is true.
Again, $B < S$ is not true. And, $U > J$ is true.
Hence, only I and III are true.

18. (5) **Given statements:**
$L = Q \geq R$ … (i)
$M = N > P$ … (ii)
$P > V = Z < R$ … (iii)
Combining all the statements, we get
$M = N > P > V = Z < R \leq Q = L$
Thus, $M \geq R$ is not true.
Again, $V > Q$ is not true.
And, $N \leq R$ is not true.
Hence none is true.

19. (4) **Given statements:**
$U \geq V \geq W = X$ … (i)
$B > C = D \geq U$ … (ii)
Combining all the statements, we get
$B > C = D > U \geq V \geq W = X$
Thus, $D \geq V$ is true.
Again, $C \geq X$ is true.
Also, $B > U$ is true.
Hence, all I, II and III are true.

20. (4) **Given statements:**

$A > B = M$ …(i)

$M \geq L$ …(ii)

$L > S$ …(iii)

$S < V$ …(iv)

Combining all the statements, we get

$A > B = M \geq L > S < V$

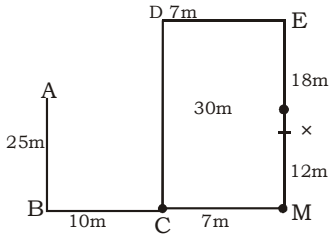
Thus, $M > S$ is true.

$L \leq A$ is not true.

$V > A$ is not true.

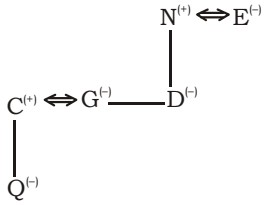
Hence, only conclusion I is true.

(21-23) :



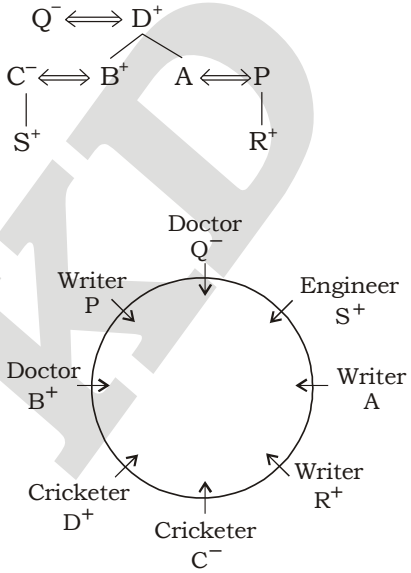
21. (2) 22. (1) 23. (1)

(24-26) :



24. (3) 25. (3) 26. (3)

(27-31) : Family Tree



27. (4) 28. (1) 29. (5) 30. (4) 31. (3)

(32-35):

32. (3) First letter of the second word from the left = B
Second letter of the first word from the right = I
There are six letters between B and I in the alphabetical order.

33. (4) SLY → LSY
BUD → BDU
MET → EMT
DYE → DEY
Then, **AIM → AIM**

34. (1) SLY → RKX
BUD → AVC
MET → LFS
DYE → CXF
AIM → BJL

35. (5) SLY → SMY
BUD → CUD
MET → MFT
DYE → EYE
AIM → BIM

MATHS

36. (5) $95^{?} = 95^{3.7} \div 95^{0.9989}$
$95^{?} = 95^{3.7-0.9989} = 95^{2.7011}$
$? \approx 2.7$

37. (2) $? \approx \sqrt{10000} + \frac{3}{5} \times 1892 = 100 + 1135.2$
$= 1235.2 \approx 1230$

38. (3) $? \approx \frac{0.0004}{0.0001} \times 36 = 4 \times 36 = 144 \approx 145$

39. (1) $? = 12345 \times \frac{137}{100} = 16912.65 \approx 17000$

40. (3) $? = 3739 + 164 \times 27 = 3739 + 4428$
$= 8167 \approx 8200$

41. (2) Required average $= \frac{280 + 354 + 433 + 343 + 535}{5} = \frac{1945}{5} = 389$

42. (4) Required difference = (235 + 567) – 134 = 802 – 134 = 668

43. (5) Required % $= \frac{1102}{2142} \times 100 = 51.44\% \approx 51\%$

44. (4) Required number of animals $= 1480 \times \frac{65}{100} = 962$

45. (3) Required number of lions $= 1072 \times \frac{3}{4} = 804$

46. (2) Clearly,
9 × 360 children = 18 × 72 men = 12 × 162 women
45 children =18 men = 27 women
children = 2 men = 3 women
Now, 4 men +12 women +10 children
= 4 men + 8 men + 4 men = 16 men
∵ 18 men can complete the work in 72 days.
∴ 16 men can complete the same work = $\frac{18\times72}{16}$ = 81 days

47. (3) Let the speed of boat in still water be x kmph and that of current be y kmph.

$$x + y = \frac{4.8}{\frac{8}{60}} = \frac{4.8\times60}{8}$$

$x + y = 36$ ....(i)

and, $x - y = \frac{4.8}{\frac{9}{60}} = \frac{4.8\times60}{9}$

$x - y = 32$ ....(ii)

By equation (i) – (ii),

$x + y - x + y = 36 - 32 = 4$

$2y = 4 \Rightarrow y = \frac{4}{2}$ = 2 kmph

48. (3) Let the amount be ₹ x
Investment is done as given below.

Amount left = $x - \frac{40}{100}x = \frac{60x}{100}$

$\frac{40}{100}x$ at 15% p.a

$\frac{50}{100}$ of $\frac{60x}{100} = \frac{30x}{100}$ at 10% p.a

Rest amount = $x - \frac{40x}{100} - \frac{30x}{100} = \frac{30x}{100}$ at 18% p.a

Interest earned by each at end of 1 year

By 1st $\Rightarrow \frac{15}{100}\times\frac{40x}{100} = \frac{60}{1000}x$

By 2nd $\Rightarrow \frac{10}{100}\times\frac{30x}{100} = \frac{30}{1000}x$

By 3rd $\Rightarrow \frac{18}{100}\times\frac{30x}{100} = \frac{54}{1000}x$

Total interest = $\frac{144}{1000}x$

∴ Rate% = $\frac{\frac{144x}{1000}}{x}\times100$ = 14.4%

49. (1) C's present age = 85 – 7 = 78 years
B's present age = 78 – 12 = 66 years

A's present age = $\frac{3}{11} \times 66 = 18$ years

$\therefore$ A's father's present age = 25 + 18 = 43 years

50. (3) According to question,
CP of 20 articles = SP of x articles = 1 (let)

CP of 1 articles = $\frac{1}{20}$

SP of 1 articles = $\frac{1}{x}$

Profit per cent = $\frac{\frac{1}{x} - \frac{1}{20}}{\frac{1}{20}} = \frac{25}{100}$

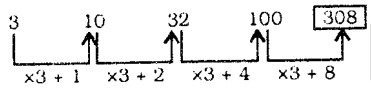
$\frac{20-x}{x} = \frac{1}{4}$

$80 - 4x = x$

$5x = 80$

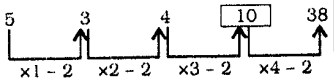
$x = 16$

51. (3) The given series is based on the following pattern.



Hence, 308 will come in place of question mark.

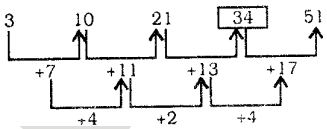
52. (5) The given series is based on the following pattern.



Hence, 10 will come in place of question mark.

53. (2) The given series is based on the following pattern.
$5 \times 1 + (1)^2 = 6$
$6 \times 2 + (2)^2 = 16$
$16 \times 3 + (3)^2 = 57$
$57 \times 4 + (4)^2 = 244$
Hence, 16 will come in place of question mark.

54. (1) The given series is based on the following patterns.



Hence, 34 will come in place of question mark.

55. (4) The given series is based on the following pattern.
$5 \times 2 + 1 = 11$
$11 \times 2 + 3 = 25$
$25 \times 2 + 5 = 55$
$55 \times 2 + 7 = 117$

56. (2) Required probability = $\frac{5_{C_2}}{7_{C_2}} = \frac{10}{21}$

57. (3) Let the number of children be x

No. of sweets received by each child = $\frac{405}{x}$

$\frac{405}{x}$ = 20% of x

$\frac{405}{x} = \frac{x}{5}$

$x^2 = 405 \times 5$

$x = \sqrt{405 \times 5}$

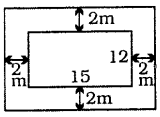
$x = \sqrt{81 \times 5 \times 5} = 9 \times 5 = 45$

$\therefore$ Required no. of sweets received by each child = $\frac{405}{45} = 9$

58. (5) Ratio of the earned profit = Ratio of the equivalent capitate of Alka and Priti
= 45000 × 12 : 52000 × 4 = 45 × 3 : 52 = 135 : 52
Sum of ratios = 135 + 52 = 187

$\therefore$ Priti's share = ₹$\left(\frac{52}{187} \times 56165\right)$ = ₹ 15618.07

59. (1) Given that
Area of outer rectangle = 19 × 16 = 304 m^2



Area of inner rectangle = 15 × 12 = 180 m^2

$\therefore$ Required area = (304 – 180) = 124 m^2

60. (1) Total runs in the first 10 overs = 10 × 3.2 = 32

Runs rate in the remaining 40 overs = $\frac{282-32}{40} = \frac{250}{40} = 6.25$

61. (3) Production cost = $24\left[\frac{10}{100} \times \frac{3}{10} + \frac{17}{100} \times \frac{8}{17}\right]$

= 24[0.03 + 0.08] = 24 × 0.11 = 2.64 crore

62. (2) $Q_{I_1} = 24 \times \frac{20}{100} \times \frac{2}{5}$ = 1.92 crore

$R_{I_2} = 24 \times \frac{15}{100} \times \frac{7}{15}$ = 1.68 crore

$\therefore$ Different = 1.92 – 1.68 = 0.24 crore = 24 lakh

63. (4) $\text{Profit}_{(I_1+I_2)} = 24 \times \frac{25}{100}\left[\frac{14}{25} \times \frac{20}{100} + \frac{11}{25} \times \frac{30}{100}\right]$

Profit = $24 \times \frac{25}{100} \times \frac{1}{250}$ [28 + 33] = 1.464 crore

64. (2) $\text{Profit}_Q = 24 \times \frac{20}{100} \times \frac{3}{5} \times \frac{25}{100} = 0.72$ crore

$\text{Profit}_S = 24 \times \frac{13}{100} \times \frac{8}{13} \times \frac{30}{100} = 0.576$ crore

$\therefore \text{Profit}_{(Q+S)} = 0.72 + 0.576 = 1.296$ crore

65. (1) $\text{Profit}_P = 24 \times \frac{25}{100} \times \frac{14}{25} \times \frac{20}{100} = 0.672$ crore

$\text{Profit}_T = 24 \times \frac{10}{100} \times \frac{7}{10} \times \frac{25}{100} = 0.42$ crore

$\therefore$ Ratio $= \frac{0.672}{0.42} = \frac{8}{5} = 8 : 5$

66. (4) I. $x^2 + 5x + 6 = 0$
$x^2 + 2x + 3x + 6 = 0$
$x(x + 2) + 3(x + 2) = 0$
$(x + 3)(x + 2) = 0$
$x = -3$ or -2
II. $y^2 + 3y + 2 = 0$
$y^2 + 2y + y + 2 = 0$
$y(y + 2) + 1(y + 2) = 0$
$(y + 1)(y + 2) = 0$
$y = -1$ or -2
Clearly, $x \leq y$

67. (5) I. $x^2 - 10x + 24 = 0$
$x^2 - 6x - 4x + 24 = 0$
$x(x - 6) - 4(x - 6) = 0$
$(x - 4)(x - 6) = 0$
$x = 4$ or 6
II. $y^2 - 9y + 20 = 0$
$y^2 - 5y - 4y + 20 = 0$
$y(y - 5) - 4(y - 5) = 0$
$(y - 4)(y - 5) = 0$
$\therefore$ $y = 4$ or 5

68. (4) I. $x^2 = 961$
$x = \pm 31$
II. $y = \sqrt{961} = 31$
Clearly, $x \leq y$

69. (5) I. $x^2 - x - 72 = 0$
$x^2 - 9x + 8x - 72 = 0$
$x(x - 9) + 8(x - 9) = 0$
$(x + 8)(x - 9) = 0$
$x = -8$ or 9
II. $y^2 = 64$
$y = \pm 8$

70. (5) I. $x^2 = 463 + 321 = 784$

$x = \pm 28$

II. $y^2 = 308 + 421 = 729$

Clearly, $y = \pm 27$

ENGLISH LANGUAGE

(91–95) : (CGDBFEA)

96. (4) Replace 'with' by 'about'.

97. (3) Replace 'yet' by 'but'.

98. (1) Replace 'deliberately' by 'deliberate'.

99. (1) Replace 'based' by 'having'.

100. (5) No error.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Nascent	Emerging; just coming into existence.	उदीयमान, उभरता हुआ
Insolvent	Unable to pay one's bills or discharge financial obiligations.	दिवालिया, निर्धन
Allege	To assert without proof.	आरोप लगाना
Ponzi scheme	A swindle in which a quick return, made up of money from new investors, on an initial investment lures the victim into much bigger risks.	छल, भ्रष्ट योजना
Pose	To assert, state, or put forward	पेश करना
Expedience	The quality of being suited to the end in view	लाभ, सुविधा
Facilitates	to make easier of less difficult	सरल बनाना, मदद देना
Prudential	Having caution with regard to practical matters; discretion	चातुर्य पूर्ण, बुद्धिमानी
Brick-and-mortar	Pertaining to conventional stores, businesses, etc., having physical buildings and facilities, as opposed to Internet or remote services.	भौतिक अस्तित्व
Complementary	acting as or providing a complement (something that completes the whole)	पूरक, पूरा करने वाला
Expedite	To speed up the progress of	शीघ्र निबटाना, जल्दी करना
Entangling	Twisted together of entwine into a confusing mass	फँसा हुआ, घिरा हुआ

SBI CLERK SPECIAL PHASE - I - 294 (ANSWER KEY)

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