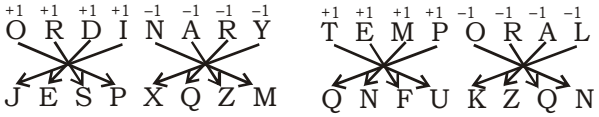
SBI CLERK SPECIAL PHASE - I - 292 (SOLUTION)

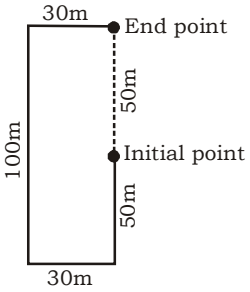
REASONING

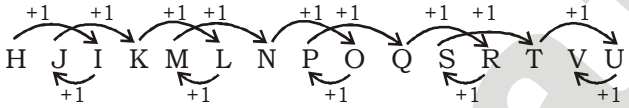
1. (3)

2. (3)


3. (2) Shubham > Aashu > Anuraag > Mandeep
Hence, Shubham earns the maximum.

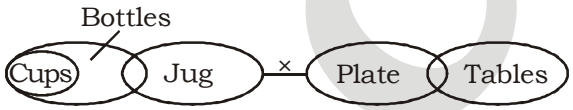
4. (4) 5. (2) 6. (3)

7. (4)


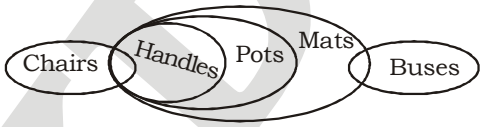
8. (3)


9. (4)

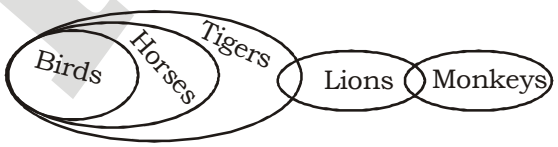
10. (2) I N D I V I D U A L

11. (5) **Statement :**


Conclusion :
I. Can't say II. Can't say III. Can't say IV. Can't say
But after comparing, we find that either I or III is true.

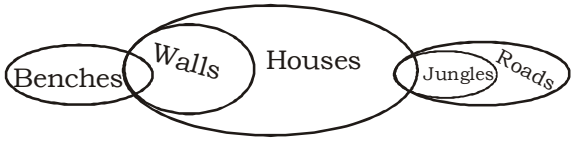
12. (2) **Statement :**


Conclusion :
I. Can't say II. True III. True IV. True
Only II, III and IV follow

13. (1) **Statement :**


Conclusion :
I. True II. Can't say III. True IV. Can't say
Only I and III follow

14. (3) **Statement :**

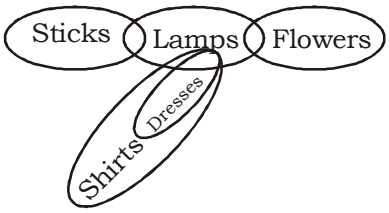


Conclusion :

I. Can't say II. Can't say III. True IV. True

Only III and IV follow

15. (1) **Statement :**



Conclusion

I. Can't say II. Can't say III. Can't say IV. Can't say

None follows

(16 – 20) :

Hewitt – Personnel – Table Tennis
Suarez – Administration – Football
Sreejesh – Administration – Hockey
Jordan – Administration – Basketball
Richards– Marketing – Cricket
Giba – Personnel – Volleyball
Sampras – Marketing – Lawn Tennis
Lin Dan – Marketing – Badminton

16. (3) 17. (2) 18. (5) 19. (1) 20. (4)

(21–25) :

$\$ \rightarrow \geq$ $\delta \rightarrow =$ $@ \rightarrow >$ $\copyright \rightarrow \leq$ $\# \rightarrow <$

21. (2) **Statement :**

$H > T < F = E \leq V$

Conclusion :

I. $V \geq F$; true II. $E > T$; True

III. $H > V$; Can't say IV. $T < V$; True

Only I, II and IV are true

22. (5) **Statement :**

$D < R \leq K > F \geq J$

Conclusion :

I. $J < R$; Can't say II. $J < K$; True

III. $R < F$; Can't say IV. $K > D$; True

23. (5) **Statetment :**

$N = B \geq W < H \leq M$

Conclusion :

I. $M > W$; True II. $H > N$; Can't say

III. $W = N$; Can't say IV. $W < N$; Can't say

But after camparing, we find that either III or IV and I are true.

24. (1) **Statements :**
$R \leq D \geq J < M > K$
Conclusions:
I. K < J ; Can't say II. D > M ; Can't say
III. R < M ; Can't say IV. D > K ; Can't say
None is true

25. (4) **Statements :**
$M \geq K > N \leq R < W$
Conclusions:
I. W > K ; Can't say II. $M \geq R$; Can's say
III. K > W; Can't say IV. M > N ; True
But after comparing we find that either I or III and IV are true.

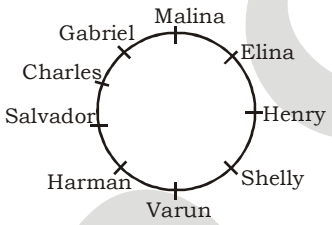
(26-30):

The machine rearranges words and numbers in such a way that numbers are arranged from the left side with the smallest number coming first and moving subsequently so that in the last step numbers are arranged in descending order. While the words are arranged from the right side as they appear in English alphabetical order.

Input : 73 word show 19 42 never break heart for 59 21 value 68 99
Step I : 19 73 word show 42 never heart for 59 21 value 68 99 break
Step II : 21 19 73 word show 42 never heart 59 value 68 99 break for
Step III : 42 21 19 73 word show never 59 value 68 99 break for heart
Step IV : 59 42 21 19 73 word show value 68 99 break for heart never
Step V : 68 59 42 21 19 73 word value 99 break for heart never show
Step VI : 73 68 59 42 21 19 word 99 break for heart never show value
Step VII : 99 73 68 59 42 21 19 break for heart never show value word

26. (5) 27. (3) 28. (4) 29. (2) 30. (4)

(31–35) :



31. (1) 32. (4) 33. (3) 34. (2) 35. (5)

Maths

(36-40):

36. (1) $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$

$\frac{9}{2} - \frac{17}{6} = ? - \frac{19}{12}$

$\frac{27-17}{6} = ? - \frac{19}{12}$

$? = \frac{10}{6} + \frac{19}{12}$

$? = \frac{39}{12} = 3\frac{1}{4}$

37. (2) $99.9 + 9.99 + 0.99 + 99.09 + 9.09 + 999 = ?$

$? = 1218.06$

38. (3) $4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = ?$

$? = \frac{14}{3} + \frac{43}{6} - \frac{47}{9} = \frac{84+129-94}{18}$

$= \frac{119}{18} = 6\frac{11}{18}$

39. (4) 65% of 240 + ?% of 150 = 210

$240 \times \frac{65}{100} + \frac{?}{100} \times 150 = 210$

$156 + \frac{?}{100} \times 150 = 210$

$? = \frac{54 \times 100}{150} = 36$

40. (1) $\frac{2}{3}$ of $1\frac{2}{5}$ of 75% of 540 = ?

$\frac{2}{3} \times \frac{7}{5} \times \frac{75}{100} \times 540 = ?$

$? = 378$

(41-45) :

41. (1) Required difference = $[(46 + 64 + 72) - (62 + 48 + 36)] \times 100 = 3,600$

42. (4) Required difference = $\left[70 \times \frac{120}{100} - 30 \times \frac{110}{100}\right] \times 100 = 5,100$

43. (3) Number of students enrolled in college B in october = $\frac{72+76}{2} \times 100 = 7,400$

$\therefore$ Required number of students = $\frac{7400}{2} = 3,700$

44. (5) Total number of students in March 2017 = $(84 + 38) \times \frac{140}{100} \times 100 = 17,080$

Number of students in college A in March 2017 = $84 \times \frac{125}{100} \times 100 = 10,500$

$\therefore$ Required number of students = 17080 – 10500 = 6,580

45. (4) Required ratio = (62 + 14) : (30 + 72) = 76 : 102 = 38 : 51

(46-50):

46. (2) The number series is as follows:

$8 + 2 = 10$

$10 + (3 \times 2 + 2) = 18$

$18 + (3 \times 8 + 2) = 44$

$44 + (3 \times 26 + 2) = 124$

$124 + (3 \times 80 + 2) =$ **366**

47. (4) The number series is as follows:
13 + 1 + 12 = 25
25 + 3 × 12 = 61
61 + 5 × 12 = 121
121 × 7 × 12 = 205
205 + 9 × 12 = **313**

48. (1) The number series is as follows:
656 ÷ 2 + 24 = 352
352 ÷ 2 + 24 = 200
200 ÷ 2 + 24 = 124
124 ÷ 2 + 24 = 86
86 ÷ 2 + 24 = **67**

49. (3) The number series is as follows:
454 + 18 = 472
472 – 27 = 445
445 + 18 = 463
463 – 27 = 436
436 + 18 = **454**

50. (2) The number series is as follows:
12 × 4 – 30 = 18
18 × 4 – 36 = 36
36 × 4 – 42 = 102
102 × 4 – 48 = 360
300 × 4 – 54 = **1386**

51. (1) Rate = $\frac{\text{SI} \times 100}{\text{Principal} \times \text{Time}} = \frac{10230 \times 100}{27500 \times 3} = 12.4\%$

$$\text{C.I} = \text{P}\left[\left(1+\frac{\text{R}}{100}\right)^{\text{T}} - 1\right] = 27500\left[\left(1+\frac{12.4}{100}\right)^{3} - 1\right]$$

$\approx$ 27500 (1.42– 1) = 27500 × 0.42 = ₹ 11,550

52. (5) According to question,

Selling Price = $\frac{6500 \times 95}{100}$ = ₹ 6175

$\therefore$ Cost Price = $\frac{6175}{115} \times 100$ = ₹ 5269.56 $\approx$ ₹ 5,369

53. (5) Side of the square = $\sqrt{1024}$ = 32 cm.
Length of rectangle = 2 × 32 = 64 cm
Breadth of rectangle = 32 – 12 = 20 cm
$\therefore$ Required ratio = 64 : 20 = 16 : 5

54. (1) Required probability = $\frac{{}^{5}C_{2}}{{}^{7}C_{2}} = \frac{10}{21}$

55. (3) Four years ago,
Shyam : Ram = 3 : 4
After four years,

$$\frac{3x+8}{4x+8}=\frac{5}{6}$$

$20x + 40 = 18x + 48$

$2x = 48 - 40 = 8$

$$x = \frac{8}{2} = 4$$

$\therefore$ Shyam's present age = $3x + 4 = 3 \times 4 + 4 = 16$ years

(56-60) :

56. (4) Required total = 350 + 325 + 300 + 375 + 425 = 1,775

57. (3) Required ratio = (300 + 425) : (275 + 300)
= 725 : 575 = 29 : 23

58. (1) Total number of Mobiles sold by all the shopkeeper
Lenovo = 350 + 325 + 300 + 375 + 425 = 1,775
Moto = 275 + 300 + 325 + 450 + 325 = 1,675
Nokia = 425 + 475 + 325 + 425 + 225 = 1,875
Required ratio = 1775 : 1675 : 1875 = 71 : 67 : 75

59. (5) Required% = $\left(\frac{325}{1875}\times 100\right)\%$ = 17.33% $\approx$ 17%

60. (1) Required% = $\left(\frac{300}{1100}\times 100\right)\%$ = 27.27% $\approx$ 27%

61. (1) According to question,

SI for 10 years = $\frac{1000\times 5\times 10}{100}$ = ₹ 500

Now,P = ₹ 1500, A = ₹ 2000
SI = ₹ 500

Now, $T = \frac{500\times 100}{1500\times 5} = 6\frac{2}{3}$ years

$\therefore$ Total time = $16\frac{2}{3}$ years

62. (3) 2 kmph = $\left(\frac{2\times 5}{18}\right)$ m/s. = $\frac{5}{9}$ m/s and 4 kmph = $\frac{4\times 5}{18}$ m/s. = $\frac{10}{9}$ m/s

Let the length of the train be x m and its speed be y m/s. Then,

$$\frac{x}{y-\frac{5}{9}} = 9$$

$9y - 5 = x$

$\therefore$ $9y - x = 5$ ..... (i)

and = $\frac{x}{y-\frac{10}{9}} = 10$

$10(9y - 10) = 9x$

$90y - 9x = 100$ ..... (ii)

By equation (i) × 10 – equation (ii), we have

$$\begin{array}{r} 90y - 10x = 50 \\ 90y - 9x = 100 \\ - \quad + \quad - \\ \hline -x = -50 \end{array}$$

x = 50 m

63. (3) According to question,

	A		B		C
Efficiency	3	:	2	:	6
No. of days	2	:	3	:	1

Number of days taken by A = 12,

Number of days taken by B =18

and Number of days taken by C = 6

1 day's work of (A + B) = $\frac{5}{36}$

1 day's work of (B + C) = $\frac{8}{36}$

1 day's work of (C + A) = $\frac{9}{36}$

In 5 days total work done = $\frac{5}{36} + \frac{8}{36} + \frac{9}{36} + \frac{5}{36} + \frac{8}{36} = \frac{35}{36}$

Now, the rest of the work $\left(ie, \frac{1}{36}\right)$ is done by AC

Number of days taken by AC for the rest of the work = $\frac{\frac{1}{36}}{\frac{9}{36}} = \frac{1}{9}$

Therefore, total time taken to complete the work = $5 + \frac{1}{9} = 5\frac{1}{9}$ days

64. (1) 2A 30

3B 20 60

6C 10

ABC discharge chemical in 1 min = 6 + 3 + 2 = 11.

So, proportion of R = $\frac{6\times3}{11\times3} = \frac{6}{11}$

65. (3) According to question,
Requrired number of ways = 4^6

(66-70) :

66. (2) I. $14x^2 - 57x + 55 = 0$
$14x^2 - 35x - 22x + 55 = 0$
$7x(2x - 5) - 11(2x - 5) = 0$
$x = \frac{11}{7}, \frac{5}{2}$
II. $7y^2 + 3y - 22 = 0$
$7y^2 + 14y - 11y - 22 = 0$
$7y(y + 2) - 11(y + 2) = 0$
$y = \frac{11}{7}, -2$
Clearly, $x \geq y$

67. (1) I. $\sqrt{784x} + 1234 = 1486$
$28x = 1486 - 1234$
$x = \frac{252}{28} = 9$
II. $\sqrt{1089y} + 2081 = 2345$
$33y = 2345 - 2018$
$y = \frac{264}{33} = 8$
Clearly, $x > y$

68. (5) I. $3x^2 - 29x + 18 = 0$
$3x^2 - 27x - 2x + 18 = 0$
$3x(x - 9) - 2(x - 9) = 0$
$x = \frac{2}{3}, 9$
II. $2y^2 - 22y + 56 = 0$
$2y^2 - 14y - 8y + 56 = 0$
$2y(y - 7) - 8(y - 7) = 0$
$y = \frac{8}{2}, 7$

69. (1) I. $5x + 2y = 96$ ...(i)
$3(7x + 5y) = 489$
$7x + 5y = 163$ ...(ii)
Equation (i) × 5 – equation (ii) × 2, we get
$25x + 10y - 14x - 10y = 480 - 326$
$11x = 154$
$x = 14$
Put the value vaive of x is equation (i), we get
$5 \times 14 + 2y = 96$
$2y = 96 - 70$
$y = 13$
Clearly, $x > y$

70. (5) I. $\frac{15}{\sqrt{x}} - \frac{9}{\sqrt{x}} = x^{\frac{1}{2}}$

$15 - 9 = x^{\frac{1}{2}+\frac{1}{2}}$

$x = 6$

II. $y^{10} - (36)^5 = 0$

$y^{10} = (36)^5$

$y^{10} = 6^{10}$

$y = 6$

Clearly, $x = y$

ENGLISH LANGUAGE

(91-95) : (FABDCE)

(96-100):

96. (3) Insert 'been' after 'has'.
97. (3) Substitute 'will have no' with 'will not have'.
98. (2) Replace 'alternate' with 'alternative'.
99. (5)
100. (4) Replace 'few' with 'a few'.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Prerequisite	required as a prior condition	शर्त
Contemporary	living or occurring at the same time	समकालीन
Dormant	(of an animal) having normal physical functions suspended or slowed down for a period of time; in or as if in a deep sleep	निष्क्रिय
Sectarian	denoting or concerning a sect or sects	सांप्रदायिक
Pedagogy	the method and practice of teaching, especially as an academic subject or theoretical concept.	शिक्षा शास्त्र
Revamp	give new and improved form, structure, or appearance to	सुधार
Medley	a varied mixture of people or things; a miscellany	मिश्रण
Ossification	conformity	हड्डी बन जाना
Hampers	or impede the movement or progress of	बाधित
Bolstered	support or strengthen; prop up	बल मिला
Imbibition	drinking, imbibing	अंत: शोषण
Coalescing	come together and form one mass or whole	संगठित होना
Amalgamate	combine or unite to form one organization or structure	मिलाना
Erudite	having or showing great knowledge or learning	वैज्ञानिक
Profane	relating or devoted to that which is not sacred or biblical; secular rather than religious	अपवित्र
Ungodly	irreligious or immoral	धर्मभ्रष्ट
Ascended	go up or climb	चढ़ना
Awkward	causing difficulty; hard to do or deal with	भद्दा

SBI CLERK SPECIAL PHASE - I - 292 (ANSWER KEY)

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