

SBI Clerk Preliminary Grand Test –SCP-180331

HINTS & SOLUTIONS

ANSWER KEY

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

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1. (3) With respect to the first paragraph of the passage, the author wanted to emphasize on the condition of rhinoceros which is here termed as 'valuable' end.
2. (3) Referring the second paragraph of the passage, we can infer that option (c) is correct. As China is using the horns of the Rhino for traditional medicine.
3. (4) In reference with the passage, the word 'infested' refers to damage caused by Tigers by killing the people wandering around the backroads and the edges of plantations. Hence only option (d) is correct.
4. (4) The whole passage revolves around the theme of China's involvement in trading with the island of Sumatra and Java. Hence option (d) is the correct choice.
5. (2) Sentence (III) is the correct choice. Refer the first few lines of last paragraph "Habitat destruction is probably the key driver for this megafauna's demise, and their African cousins have it worse due to the fact that their tusks are much bigger and therefore more valuable, but Asian elephants have it bad too."
6. (5) All of the given sentences can be inferred from the passage.
7. (5) Snared means catch or trap. Hence it has a similar meaning as 'entrap'.
8. (4) Demise means death or destruction, which is similar in meaning to de cease.
9. (3) Swarmed means move somewhere in large numbers. Hence it has opposite meaning as scattered.
10. (5) Ruthlessly means without pity or compassion for others, which is opposite in meaning to compassionately.
11. (3) Option (i) is grammatically incorrect. Use 'brother' in place of 'brothers' as after 'One of' we use a plural noun.
12. (1) (ii) Use 'were' in place of 'was' as the subject is 'all the people' which is plural.
(iii) Use 'since' in place of 'for' as 'since' is used for 'point of time' and 'for' is used for 'period of time'.
13. (2) (i) Use 'these kinds' in place of 'these kind' as 'these' is plural after which plural noun must be used.
(ii) Use 'have' in place of 'has' as the subject "the recent changes" is plural.
14. (2) (i) 'not different from that of' will be used as the comparison is not between two people but with their suggestion.
(iii) The use of 'study' is superfluous.
15. (4) (iii) 'was prepared to' will be used in place of 'has prepared to' as the given sentence is an indirect narration whose reporting verb 'declared' is in past tense and therefore the reported speech will also be in past tense.
(ii) Use 'brought him' in place of 'brought with him'.
Bring, buy, give + Indirect Object + Direct Object.
(i) Use 'have been living' in place of 'are living' as the sentence must be in present perfect continuous due to the use of "for the last five years."
16. (2) The correct sequence to arrange the sentence properly and meaningfully is BCDA. The expression "India's standing as a credible regional player has risen in the eyes of" gives a contextual meaning to the sentence. Hence option (b) is the correct choice.
"Post-Doklam, India's standing as a credible regional player has risen in the eyes of the South-east Asian leaders as, indeed, in regions farther afield."
17. (1) The correct sequence to arrange the sentence properly and meaningfully is ADCB. It is to be noted that the expression "The unprecedented participation of 10 heads of ASEAN governments" gives a meaningful sense to the sentence which when followed by the parts D, C and B respectively make the sentence meaningful. Hence option (a) is the correct choice.
"The unprecedented participation of 10 heads of ASEAN states/governments as guests of honour at the Republic Day parade was a landmark development in the expanding role of India in international affairs."
18. (5) The given statement doesn't require any rearrangement as it already gives a contextual meaning to the sentence. The expression " would always elude Asean is unanimity

in its approach to China" gives the required structure to the sentence. Hence the correct sequence is ABCD.

"The major issue for which a resolution or a common approach would always elude Asean is unanimity in its approach to China."

19. (3) The correct sequence to arrange the sentence properly and meaningfully is CDAB. This can be verified by the expression "which was intended to be opened by the end of 2017" which gives a coherent meaning to the sentence. Hence option (c) is the correct choice.
"The Chinese government recently announced an ambitious carbon trading market which was intended to be opened by the end of 2017."
20. (5) The sentence doesn't require any reshuffling as all the parts are accordingly arranged giving a contextual meaning to the sentence. Hence option (e) is the correct choice with ABCD being the proper sequence.
"Amongst the most avid Budget-trackers will be the great Indian middle class — largely salaried taxpayers in whose hearts, despite a long history of having hopes dashed Budget after Budget, hope appears to spring eternal."
21. (1) The error is in part (B) of the sentence.
Use 'has lived' or 'has been living' in place of 'lived' as the sentence is present tense which we can easily figure out by the use of 'is sitting' and 'has never created'.
22. (1) The error is in part (A) of the sentence.
Use 'who' or 'that' in place of 'which' as criminal is a person and for a person we use 'who' as a relative pronoun. 'Which' is used for animas and nonliving things.
23. (4) The error is in part (B) of the sentence.
Use 'sort' in place of 'sorts' because of the use of adjective 'these' as we use plural noun number after 'these'.
24. (1) The error is in part (D) of the sentence.
Use 'obtaining' in place of 'obtain' as the sequence of the verb in the given sentence is:
Of meeting.....reading.....and obtaining.
25. (5) The correct choice is option (e) as the error is in part (D) of the sentence.
Use 'made' in place of 'make' as 'make a mistake' is idiomatic which means if it is used in a passive voice then it's correct representation would be 'a mistake made'.
- 26-30. The correct sequence is DACBE
26. (2) $2x^2 - 17x + 36 = 0$
 $2x^2 - 8x - 9x + 36 = 0$
 $2x(x - 4) - 9(x - 4) = 0$
 $(2x - 9)(x - 4) = 0$
 $x = \frac{9}{2}, 4$
27. (1) $3y^2 - 22y + 40 = 0$
 $3y^2 - 12y - 10y + 40 = 0$
 $3y(y - 4) - 10(y - 4) = 0$
 $(y - 4)(3y - 10) = 0$
 $y = 4, \frac{10}{3}$
 $x \geq y$
28. (3) $2x^2 - 8x - 9x + 36 = 0$
 $2x(x - 4) - 9(x - 4) = 0$
 $(2x - 9)(x - 4) = 0$
 $x = \frac{9}{2}, 4$
29. (4) $3y^2 - 22y + 40 = 0$
 $3y^2 - 12y - 10y + 40 = 0$
 $3y(y - 4) - 10(y - 4) = 0$
 $(y - 4)(3y - 10) = 0$
 $y = 4, \frac{10}{3}$
 $x \geq y$
30. (5) $4x^2 + 27x + 45 = 0$
 $4x^2 + 12x + 15x + 45 = 0$
 $4x(x + 3) + 15(x + 3) = 0$
 $(4x + 15)(x + 3) = 0$
 $x = -\frac{15}{4}, -3$
31. (3) $5y^2 + 42y + 88 = 0$
 $5y^2 + 20y + 22y + 88 = 0$
 $5y(y + 4) + 22(y + 4) = 0$
 $(5y + 22)(y + 4) = 0$
 $y = -4, -\frac{22}{5}$
 $x > y$
32. (1) I. $x^2 + 21x + 108 = 0$
 $x^2 + 9x + 12x + 108 = 0$
 $x(x + 9) + 12(x + 9) = 0$
 $(x + 12)(x + 9) = 0$
 $x = -12, -9$
- II. $y^2 + 14y + 48 = 0$
 $y^2 + 6y + 8y + 48 = 0$
 $y(y + 6) + 8(y + 6) = 0$
 $(y + 8)(y + 6) = 0$
 $y = -8, -6$
 $y > x$
33. (4) I. $2x^2 + 7x - 60 = 0$
 $2x^2 + 15x - 8x - 60 = 0$
 $x(2x + 15) - 4(2x + 15) = 0$
 $(x - 4)(2x + 15) = 0$
 $x = 4, -\frac{15}{2}$
- II. $3y^2 - 28y + 64 = 0$
 $3y^2 - 12y - 16y + 64 = 0$
 $3y(y - 4) - 16(y - 4) = 0$
 $(3y - 16)(y - 4) = 0$
 $y = \frac{16}{3}, 4$
 $y \geq x$
34. (5) I. $x^2 - 2x - 24 = 0$
 $x^2 - 6x + 4x - 24 = 0$
 $x(x - 6) + 4(x - 6) = 0$
 $(x + 4)(x - 6) = 0$
 $x = 6, -4$
- II. $y^2 + 3y - 40 = 0$
 $y^2 + 8y - 5y - 40 = 0$
 $y(y + 8) - 5(y + 8) = 0$
 $(y - 5)(y + 8) = 0$
 $x = 5, -8$
No relation can be established
35. (2) I. $4x^2 + 27x + 45 = 0$
 $4x^2 + 12x + 15x + 45 = 0$
 $4x(x + 3) + 15(x + 3) = 0$
 $(4x + 15)(x + 3) = 0$
 $x = -\frac{15}{4}, -3$
- II. $5y^2 + 42y + 88 = 0$
 $5y^2 + 20y + 22y + 88 = 0$
 $5y(y + 4) + 22(y + 4) = 0$
 $(5y + 22)(y + 4) = 0$
 $y = -4, -\frac{22}{5}$
 $x > y$
36. (5) $28 \times 2 \times 864 \times \frac{1}{54} = ? + 540$
 $896 - 540 = ?$
 $? = 356$
37. (4) $\frac{5}{4} \times \frac{7}{6} \times ? = \frac{84}{100} \times 1250$
 $? = \frac{84}{100} \times 1250 \times \frac{4}{5} \times \frac{6}{7}$
 $? = 720$
38. (1) $\left[\left((38416)^{\frac{1}{2}} \right)^{\frac{1}{5}} \right]^{\frac{5}{2}} = ?$
 $? = (38416)^{\frac{1}{2} \times \frac{1}{5} \times \frac{5}{2}}$
 $? = (38416)^{\frac{1}{4}}$
 $? = 14$

39. (4) $38 + 72 = 22 \times ?$
 $110 = 22 \times ?$

$? = 5$
 40. (3) $544 \times \frac{1}{16} \times 32 - 766 + 224 = ?$
 $1088 - 766 + 224 = ?$

41. (4) Value of embankment formed = Volume of soil taken out
 Let 'h' is height of embankment
 $\pi \times 8^2 \times 9 = \pi \times (12^2 - 8^2) \times h$
 $\frac{64 \times 9}{20 \times 4} = h$
 $\Rightarrow h = 7.2 \text{ m}$

42. (2) Let Bhavya and Abhi can complete the work alone in 'a' and 'b' days

ATQ,
 $\frac{1}{a} + \frac{1}{b} = \frac{1}{7.2} \dots (i)$

And,
 $\frac{8}{a} + \frac{6}{b} = 1 \dots (ii)$

On solving (i) & (ii)

$a = 12, b = 18$

Efficiency of Bhavya and Abhi will be 18 and 12 respectively if total work equal to '216'

Required % = $\frac{18-12}{12} \times 100$

= $\frac{6}{12} \times 100 = 50\%$ more

43. (5) Ratio of speed = 3 : 4
 Ratio of time taken = 4 : 3
 Time taken Time taken
 By Sakshi By Priya
 $\frac{4}{4} : \frac{3}{3}$
 $1 = 30 \text{ minutes}$

\Rightarrow Time taken by Sakshi = $4 \times 30 \text{ minutes}$

= 120 minutes

= 2 hours

44. (4) Let, time given by Yogesh, Deepak and Sanjay is x, y and z months respectively

ATQ,

$16000 \times x : 12000 \times y : 8000 \times z$

$\frac{1}{x} : \frac{1}{y} : \frac{1}{z}$
 $= 3 : 4 : 6$

Required % = $\frac{3}{4} \times 100 = 75\%$

45. (1) Let salary of Sanjeev and Rawat is 'x' and 'y' respectively.

ATQ,

$x + y = 2 \times 3000 = 6000 \dots (i)$

$1.4x + 1.2y = 1.32 \times 6000 = 7920 \dots (ii)$

On solving (i) & (ii) we get

$x = 3600$

$y = 2400$

Required percentage = $\frac{3600-2400}{2400} \times 100$

= 50%

46. (4) Hockey players in school X and school Z together in year 2016

= $\frac{80}{(60-40)} \times 60 + \frac{180}{(80-20)} \times 80$

= $240 + 240 = 480$

Cricket players in same schools together in year 2017

= $\frac{120}{(80-20)} \times 80 + \frac{160}{(52-48)} \times 48$

= $160 + 1920 = 2080$

Required difference = $2080 - 480 = 1600$

47. (1) Cricket players in school K and L together in year 2016

= $\frac{320}{(70-30)} \times 70 + \frac{100}{(55-45)} \times 55$

= $560 + 550 = 1110$

Hockey players in school Y in year 2017

= $\frac{80}{(55-45)} \times 55 = 440$

Required percentage = $\frac{1110}{440} \times 100$

= $252 \frac{3}{11}\%$

48. (2)

Required average

= $\frac{1}{3} \left[\frac{150}{(75-25)} \times 25 + \frac{180}{(80-20)} \times 20 + \frac{160}{(52-48)} \times 48 \right]$

= $\frac{1}{3} [75 + 60 + 1920]$

= $\frac{2055}{3} = 685$

49. (5)

Required ratio

= $\frac{80}{(55-45)} \times 55$

= $\frac{100}{(55-45)} \times 55$

= $\frac{440}{550}$

= $\frac{4}{5} = 4 : 5$

50. (3)

Required percentage

= $\frac{\frac{140}{(60-40)} \times 40 + \frac{320}{(70-30)} \times 70}{\frac{320}{(70-30)} \times 70} \times 100$

= $\frac{280 + 560}{560} \times 100$

= 50%

51. (2)

$(1511 - 1) \div 5 = 302$

$(302 - 2) \div 4 = 75$

$(75 - 3) \div 3 = 24$

$(24 - 4) \div 2 = 10$

$(10 - 5) \div 1 = 5$

Grand Test – SCP-180331



52. (4)
$$\begin{array}{ccccccccc} & 7 & & 10 & & 18 & & 42 & & 90 & & 210 \\ & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \\ & 2^2-1 & & 3^2-1 & & 5^2-1 & & 7^2-1 & & 11^2-1 & & \end{array}$$

53. (5)
$$\begin{array}{ccccccccc} & 48 & & 24 & & 72 & & 18 & & 90 & & 15 \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\ & \div 2 & & \div 3 & & \div 4 & & \div 5 & & \div 6 & & \end{array}$$

54. (1)
$$\begin{array}{ccccccccc} & 9 & & 6 & & 9 & & 24 & & 108 & & 888 \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\ & \times 0.5+1.5 & & \times 1+3 & & \times 2+6 & & \times 4+12 & & \times 8+24 & & \end{array}$$

55. (3)
$$\begin{array}{ccccccccc} & 15 & & 30 & & 50 & & 80 & & 130 & & 220 \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\ & +15 & & +20 & & +30 & & +50 & & +90 & & \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\ & +5 & & +10 & & +20 & & +40 & & & & \end{array}$$

56. (4) Sonakshi's monthly salary
 $= \frac{4,20,000}{12} = 35,000$
 Required amount
 $= 35,000 \times \frac{20}{100} + 35,000 \times \frac{80}{100} \times \frac{30}{100}$
 $= 7000 + 8400$
 $= 15,400$

57. (2) If 18,000 totally invested in scheme 'A'
 The, interest earned after 2 years
 $= 18000 \left(1 + \frac{15}{100}\right)^2 - 18,000$
 $= 5805$
 If 18,000 totally invested in scheme 'B'.
 Then, interest earned after 2 year
 $= 18000 \left(1 + \frac{25}{100}\right)^2 - 18,000$
 $= 10125$
 Use mixture and allegation
 15% rate (scheme A) 25% rate (scheme B)

$$\begin{array}{ccc} 5805 & & 10125 \\ & \swarrow & \searrow \\ & 7725 & \\ & \swarrow & \searrow \\ 2400 & & 1920 \end{array}$$

$$\begin{array}{ccc} 5 & & 4 \\ & \swarrow & \searrow \\ & 7725 & \\ & \swarrow & \searrow \\ 2400 & & 1920 \end{array}$$

 Required% = $\frac{5-4}{5} \times 100 = 20\%$

58. (1) Curved surface area = $2\pi rl$
 Where
 r = radius of box circle of cylinder
 l = length or height of cylinder
 $\frac{r}{l} = \frac{1}{3}$
 $\Rightarrow 2\pi r \times 3r = 924$
 $\Rightarrow r^2 = 49 \Rightarrow r = 7$
 $\Rightarrow l = 21$
 Volume of cylinder = $\pi r^2 l$
 $= \frac{22}{7} \times 7 \times 7 \times 21$
 $= 3234$

59. (4) Priya's one day work = $\frac{1}{2 \times 10} = \frac{1}{20}$
 Pooja's one day work = $\frac{1}{3 \times 10} = \frac{1}{30}$
 2 day work of Priya and Pooja
 $= \frac{1}{20} + \frac{1}{30} = \frac{3+2}{60} = \frac{5}{60}$
 $= 12$ days.
 So, Pooja and Priya will take 24 days if they work alternatively.

60. (1) L.C.M. of 9, 12, 16 and 30 = 720
 So, required number = LCM + 3 = 723.

61. (5) $3^7 = \frac{729}{243} \times \frac{216 \times 72}{576} = 81$
 $3^7 = 3^4 \Rightarrow ? = 4$

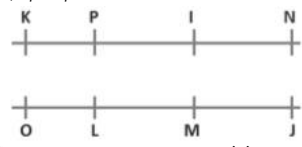
62. (2) $2^? = \frac{2^{2 \times 9.8} \times 2^{2 \times 7.8}}{2^{4 \times 2.1} \times 2^{6 \times 3.6}} \times 2^{5 \times 1.6}$
 $2^? = \frac{2^{19.6} \times 2^{15.6}}{2^{8.4} \times 2^{21.6}} \times 2^{8}$
 $2^? = 2^{(19.6+15.6+8-8.4-21.6)}$
 $2^? = 2^{21}$
 $\Rightarrow ? = 21$

63. (5) $? = \frac{175}{25} \times \frac{2.5}{0.5} = 35$

64. (5) $? = 400 - 145 + 30 \times 12$
 $= 255 + 360 = 615$

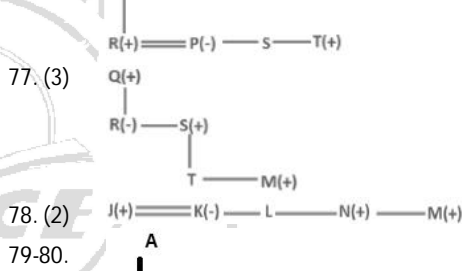
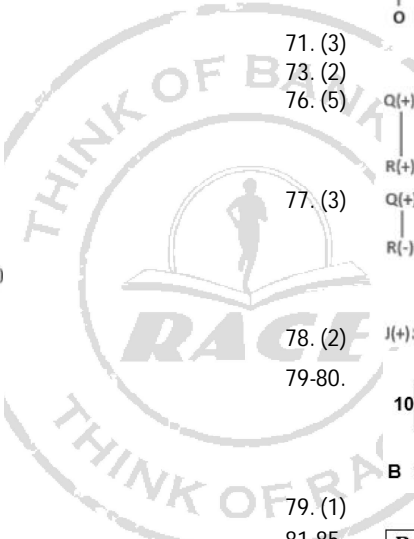
65. (2) $12^2 + \frac{9600}{12} + ? = 35^2$
 $? = 1225 - 144 - 800$
 $? = 281$

66. (3)
 67. (3) %9, #7, @4
 68. (5) E@Z
 69. (2)
 70. (4) \$L, *B, @Z
 71-75.

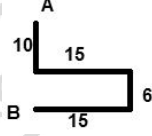


71. (3)
 72. (4)
 73. (2)
 74. (2)

75. (3)

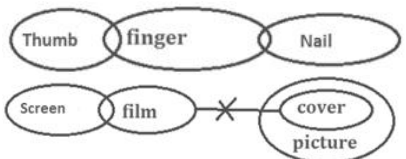


77. (3)
 78. (2)
 79-80.
 79. (1)
 80. (4)



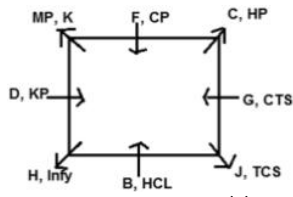
Books
Blue
Black
Orange
Green
Violet
White
Red
Yellow

81. (1)
 82. (3)
 83. (2)
 84. (3)
 85. (5)
 86. (5)
 87. (3)
 88. (4)



90. (4)

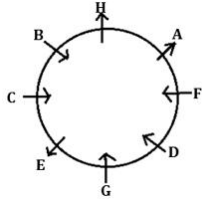
91-95.



91. (2)

93. (2)

96-100.



96. (1)

98.(2)

92. (3)

94. (4)

95. (5)

97(3)

99.(1)

100. (4)

