Grand Test - SPP 170235



SBI PO Preliminary Grand Test – SPP-170335 **HINTS & SOLUTIONS** 1.(3) Passing (Adjective) = momentary: brief: lasting for a 29. (1) Appraisals = a meeting which employees discuss performance: judgement or performance. short time. Dedicate = devote; to give lot of your time and effort to Permanent (Adjective) = lasting for a long time. 30. (3) Look at the sentences: particular activity He makes only a passing reference to the theory in his I $1.2 x^{2} + 11x + 15 = 0$ 31. (1) book. $\Rightarrow 2x^2 + 6x + 5x + 15 = 0$ The accident has not done any permanent damage. \Rightarrow 2x (x + 3) + 5 (x + 3) = 0 2.(1) \Rightarrow (x + 3) (2x + 5) = 0 3. (2) Spurt (Noun) = a sudden increase in speed, effort activity or emotion for a short period of time. ⇒x = -3 or -Drop (Noun) = decrease: reduction. Look at the sentence : II. 5 y^2 + 22y + 24 = 0 Babies get very hungry during growth spurts. During recession many companies faced sharp drop in \Rightarrow 5 y² + 10y + 12y + 24 = 0 profits \Rightarrow 5y(y + 2) + 12 (y + 2) = 0 Fuel (Verb) = to increase something: to encourage; to 4. (5) ⇒ (y + 2) (5y + 12) = 0 make something stronger; stimulate. 12 Look at the sentence : \Rightarrow y = -2 or -Higher salaries helped to fuel inflation. 5. (5) Clearly, x < y 6. (5) $1.25 x^2 + 25x + 4 = 0$ 32. (2) 7.(4) \Rightarrow 25 x² + 20x + 5x + 4 = 0 8. (4) ⇒5x (5x + 4) + 1 (5x + 4) = 0 9. (2) Concede (Verb) = to admit that something is true. 10. (4) \Rightarrow (5x + 4) (5x + 1) = 0 Look at the sentence : $-\frac{4}{5}$ or -He was forced to concede that there might be difficulties. II. 5 y^2 + 11y + 6 = 0 11. (3) 12. (2) \Rightarrow 5 y² + 5y + 6y + 6 = 0 Range = a variety of thing of a particular type. 13. (4) \Rightarrow 5y(y + 1) + 6 (y + 1) = 0 Alternative = a thing that you can choose to do: that can \Rightarrow (y + 1) (5y + 6) = 0 be used instead of something. 14. (1) Flack = severe criticism ⇒y = - 1 or -Bit = part of something 15. (3) Appalled = feeling disgust at something unpleasant Clearly, x > y Here, due to lack of interest in better part of people 16. (2) $1.2 x^{2} + x - 1 = 0$ should be used. The sentence shows cause. 33. (5) 17. (2) Here, a booming (Adjective) business fuelled $\Rightarrow 2x^2 + 2x - x - 1 = 0$ should be used. An Adjective qualifies a Noun. \Rightarrow 2x (x + 1) - 1 (x + 1) = 0 18. (1) So..... that' is correct form of correlative. Hence, so \Rightarrow (2x - 1) (x + 1) = 0 much is the inflow of travellers that should be used. $\Rightarrow x = \frac{1}{2} \text{ or } -1$ 19. (3) Here, is leading/leads to a proportionate should be used. The structure of a sentence in Present Progressive : Subject + is I am I are + Verb + ing (V₄) II. $2y^2 + y - 6 = 0$ 20. (3) 'Either.....or' is correct form of correlative. Hence, $\Rightarrow 2y^2 + 4y - 3y - 6 = 0$ either dried up or are suffering should be used. 21. (5) \Rightarrow 2y(y + 2) - 3 (y + 2) = 0 22. (4) \Rightarrow (2y - 3) (y + 2) = 0 23. (1) $Y = \frac{3}{2} \text{ or } -2$ 24. (4) 25. (2) 26. (5) Of late = recently I. $x^2 - 10x + 21 = 0$ 34. (3) 27. (2) Mainly = importantly \Rightarrow 7x - 3x + 21 = 0 On the top = in a leading position 28. (3) \Rightarrow x (x - 7) - 3 (x - 7) = 0

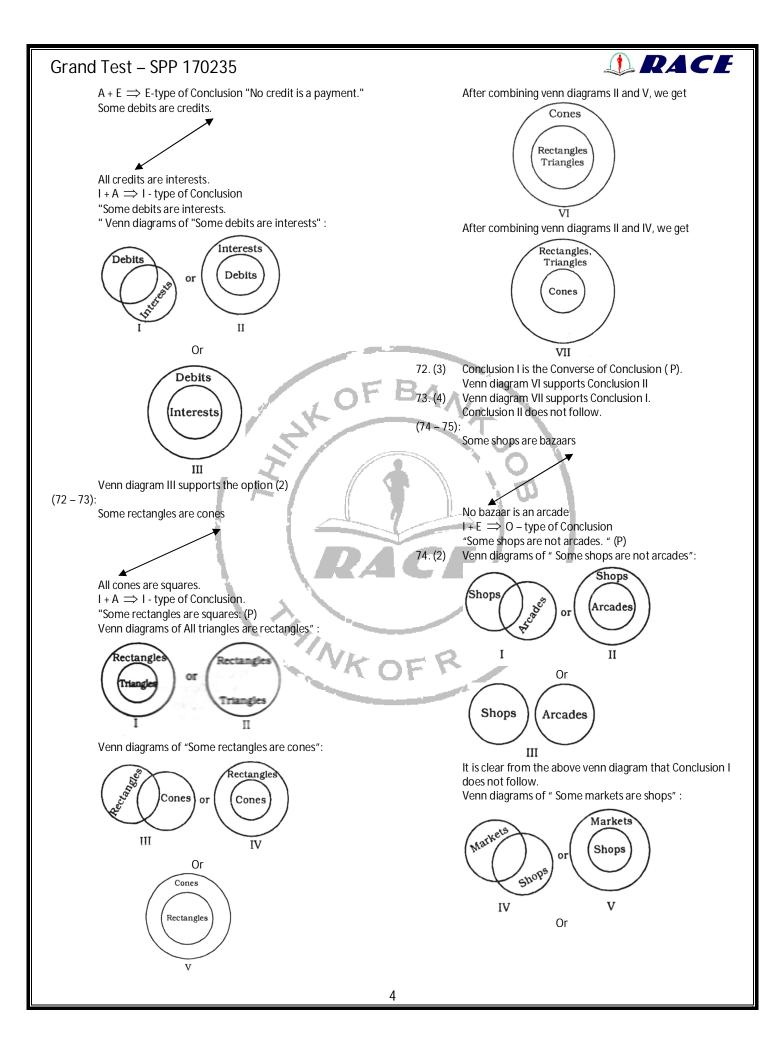
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	$\implies (x - 3) (x - 7) = 0$		100 2007
	\Rightarrow x = 3 or 7		$=\frac{100}{5}=20\%$ per annum
	II. $y^2 - 16y + 63 = 0$ $\Rightarrow y^2 - 9y - 7y + 63 = 0$	43. (4)	From both statements, Area of triangle
	$\Rightarrow y - 9y - 7y + 63 = 0$ $\Rightarrow y (y - 9) - 7 (y - 9) = 0$		$= = \frac{1}{2} \times 60 \times 70 = 210$ sq. cm.
	$\implies (y - 7) (y - 9) = 0$		Breadth of rectangle is unknown.
	\Rightarrow y = 7 or 9 Clearly, x \leq y	44. (5)	From statements I and II, Rate downstream
35. (5)	$1.6 x^{2} + 17x + 12 = 0$		$=\frac{48}{4}=12$ kmph.
	$\Rightarrow 6 x^{2} + 9x + 8x + 12 = 0$ $\Rightarrow 3x(2x + 3) + 4(2x + 3) = 0$		Rate upstream = $\frac{48}{8}$ = 6 kmph.
	$\Rightarrow (2x + 3) + (2x + 3) = 0$ $\Rightarrow (2x + 3) (3x + 4) = 0$		· _
	$\Rightarrow x = -\frac{3}{2} \text{ or } -\frac{4}{3}$		\therefore Rate in still water = $\frac{1}{2}(12+6)$ = 9 kmph.
	2 5	45. (5)	From both statements,
	II. 6 y^2 + 21y + 9 = 0 ⇒ 2 y^2 + 7y + 3 = 0		Average speed of truck
	$\Rightarrow 2y^{2} + 7y + 3 = 0$ $\Rightarrow 2y^{2} + 6y + y + 3 = 0$	-	$==\left(\frac{1}{3}\times 135\right)$ kmph. = 45 kmph.
	$\Rightarrow 2y(y+3)+1(y+3)=0$	FBAN	\therefore Average speed of car = (8 × 45) kmph.
	$\Rightarrow (2y+1)(y+3) = 0$	46. (1)	= 360 kmph. Total no. of people (Literate) in Maharashtra and
	\Rightarrow y = $-\frac{1}{2}$ or -3	Karnatak	
36. (4)			$=\left[\frac{5}{6} \times 11\% + \frac{3}{5} \times 15\%\right]$ of 25 lakh
37. (2) 38. (1)	series is based upon +4, +6, +8, +10, +12,		$= \left[\frac{5}{6} \times \frac{11}{100} + \frac{3}{5} \times \frac{15}{100}\right] \text{ of } 25 \text{ lakh}$
39. (5)	Wrong number = 8 (2+4 = 6) series is based upon, *1/2 , *3/2, *5/2, *7/2 ,		
	Wrong number = 65 i.e. (24*5/2 = 60)		$=\left[\frac{55}{6}+9\right]\times\frac{25}{100}$ lakh
40. (4)	series is based upon *2 -1 , *2 - 1, *2 - 1, And so on Hence wrong number = 194 (2*97 -1 = 193)	ACI	
41. (1)	From statement I Speed of train		$=\frac{109}{6}\times\frac{25}{100}\approx4.5 \text{ lakh}$
	$= \frac{\text{Length of train}}{\text{Time Taken}}$	47. (5)	Required ratio
			$=\frac{2}{5} \times 12\%$ of $25:\frac{4}{7} \times 8\%$ of $25=21:20$
	30 3	48. (2)	Required percentage
42. (3)	Statement II is insufficient. From statement I,	Ory	$=\frac{\frac{3}{5} \times 9\% \text{ of } 25}{\frac{5}{5} \times 100} = 112.5\% \approx 110\%$
(0)	$\frac{PR}{100} = 8300$ (i)		$=\frac{5}{\frac{2}{5} \times 12\%} \times 100 = 112.5\% \approx 110\%$
	100	49. (4)	5
	Difference = $\frac{PR^2}{10000}$	50. (4)	Total no. of illiterates in Tamil Nadu = (100 – 70 = 30%) of females
	10000 8300×R		+ (100 – 75 = 25%) of males in state
	$\Rightarrow 1660 = \frac{0.000 \times 10}{100}$		$= \left(\frac{30}{100} \times \frac{2}{5} + \frac{25}{100} \times \frac{3}{5}\right) \times \frac{12}{100} \times 25 \text{ lakh}$
	$\Rightarrow R = \frac{1660}{22}$		
	$\Rightarrow R = \frac{83}{83}$ = 20% per annum		$= \left(\frac{6 \times 2}{100} + \frac{5 \times 3}{100}\right) \times \frac{12}{100} \times 2500000$
	From statement II,		$= \left(\frac{12}{100} + \frac{15}{100}\right) \times 12 \times 25000$
	Principal = Rs. P S.I. = Rs. P		
	Time = 5 years $L > 100$		$=\frac{27}{100} \times 12 \times 25000 = 27 \times 12 \times 250 = 81000$
	$\therefore \mathbf{R} = \frac{\mathbf{I} \times 100}{\mathbf{P} \times \mathbf{T}}$	51. (2)	(9 x 1049)/23 = 410 (approx).
		52.(2)	Total students = (1049 x 100)/23 = 4560 (approx).

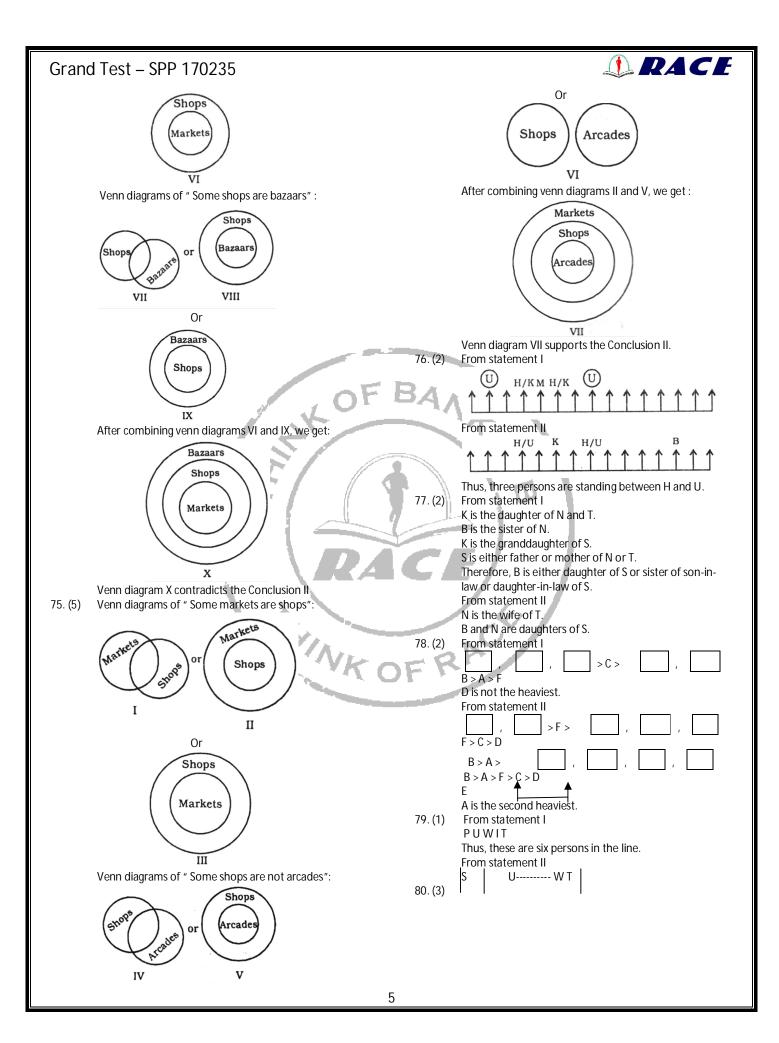
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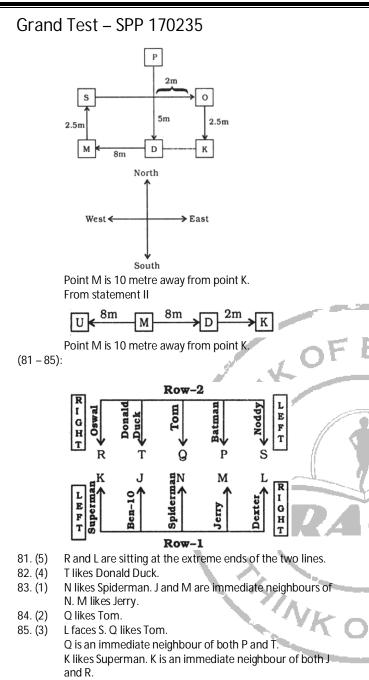
53. (4) 11 %; From the second pie chart it is clearly seen that 64.(4) the number of students in the arts faculty who are not from US, since there are a total of 1049 students in arts 65.(1) faculty, the % of non US student in arts faculty is the percentage value of 112/1049 = 10.7% = 11 % approx Total medical students = 5% of 4560 = 228 \therefore percentage 54. (4) 66. (4) of given faculty = 34/228 × 100 = 14.91 ≈ 15% A > S 55. (4) Total science students = 4560 × 21% ≈ 958 ∴ Asian $U \leq K$ students, who are studying science = 958 × 6% ≈ 57 $P \leq A > S$ Area of the rectangular floor = $\frac{6448}{62} = 104$ sq.feet 56. (1) Conclusions Square of square room = $\sqrt{361}$ = 19feet \therefore Length of rectangular room = 19 – 6 = 132feet 67. (2) $\therefore \text{ Breadth} = \frac{104}{13} = 8 \text{feet}$ $Q \le D$ Y > B $Q \le D \le N$ 57. (5) Raj works twice as fast Salim Y > B = C < D \therefore Time taken by raj to complete the work = 4days Conclusions When all three work together, their 1 day's work $=\frac{1}{8}+\frac{1}{12}+\frac{1}{4}=\frac{3+2+6}{24}=\frac{11}{24}$ $-\frac{1}{11} = 2\frac{2}{11} \text{ days}$ required average height $= \frac{13 \times 144 \frac{8}{13} + 11 \times 169 \frac{5}{11}}{13 + 11}$ $13 \times \frac{1880}{5}$ 68. (3) $L \leq 0 = S$ 58. (2) $=\frac{13\times\frac{1880}{13}+11\times\frac{1864}{11}}{11}$ 69. (5) $T \ge R$: True $P < N > H \ge B = R \le K$ $=\frac{1880+1864}{24}=\frac{3744}{24}=156 \text{ cm}.$ N > R: True P < H : Not True Let the first number be x and the second number be y R > P : Not True 59. (3) B = K : Not True \therefore y² = 8² - 15 = 64 - 15 = 49 H > K : Not True (I) All credits are interests \rightarrow Universal Affirmative (A-∴ y = 7 $\therefore x^2 + 7^3 = 568$ type). (ii) Some loans are payments \rightarrow Particular Affirmative $\Rightarrow x^2 + 343 = 568$ (I-type). \Rightarrow x² = 568 - 343 = 225 (iii) No payment is an interest \rightarrow Universal Negative (Etype). \therefore x = $\sqrt{225}$ = 15 (iv) Some payments are not interests \rightarrow Particular $\therefore 15 \times \frac{3}{5} = 9$ Negative (O-type) Some loans are payments. First S.P. $\frac{9600 \times 95}{100}$ = Rs. 9120. 60. (5) Second S.P.= $\frac{9120 \times 105}{100}$ = Rs.9576 No payment is an interest. $I + E \implies$ O-type of Conclusion "Some loans are not Loss= 9600 - 9576 = Rs.24 interests." 61.(1) ? = 6575 ÷ 18 x 42 ÷ 7 All credits are interests. $=\frac{6576}{18} \times \frac{42}{7}$ = 365 x 6 = 2190 62.(2) ? = 12 x 15 - 9 x 7 = 180 - 63 = 117 No interest is a payment. 63. (3) ? = 13 x 22 x 18 = 5148

🔔 RACE ? = 17 + 27 + 37 - 13 - 9 = 81 - 22 = 59 $? = \frac{18 \times 600}{100} + \frac{28 \times 450}{100}$ = 108 + 126 = 234 $P \leq A < R = K$ $\mathsf{S} < \mathsf{A} < \mathsf{R} = \mathsf{K} \, \geq \, \mathsf{U}$ I. A > U : Not True II. P < S : Not True $\mathsf{B}=\mathsf{C}<\mathsf{D}\,\leq\,\mathsf{N}>\mathsf{O}\,\geq\,\mathsf{P}$ I. Y > D : Not True II. N \geq Q : True $B > L \ge A = M < E$ $S = O \ge L \ge A = M$ Conclusions I. S > M : Not True II. M = S : Not True S is either greater than or equal to M. Therefore, either Conclusion I or Conclusion II is true. $G \ge R = E \le A \le T$ $E \leq G$: True

3







L likes Dexter. L faces S.

(86 – 90):

Person	Company	Fruit
Р	ITC	Guava
Q	Wipro	Banana
R	Wipro	Orange
S	ITC	Kiwi
Т	Samsung	Mango
U	Samsung	Strawberry
V	Samsung	Apple

- 86. (4) Q and R work in Wipro company.
- 87. (3) P likes Guava.
- 88. (1) V works in the Samsung company and likes Apple.



- 89. (5) T Mango is correct.
- 90. (2) R works in Wipro with Q.
 U works with T who likes Mango.
 S works in ITC.
 Q likes Banana.

(91 – 95):

After careful analysis of the given input and various steps of rearrangement it is evident that in each step two elements (one word and one number) are rearranged. In the first step the word which contains maximum number of letters is placed at the extreme left position while the lowest number is placed at the extreme right position after reversing its digits. In the second step the word which contains the second highest number of letters is placed at the extreme left position and the second lowest number is placed at the extreme right position after reversing its digits. The same procedure is continued till all the words and numbers get rearranged. Input: micro 63 make 19 morales 72 25 my map 48 margin 56

- Step I: morales micro 63 make 72 25 my map 48 margin 56 91
- Step II: margin morales micro 63 make 72 my map 48 56 91 52
- Step III: micro margin morales 63 make 72 my map 56 91 52 84
- Step IV: make micro margin morales 63 72 my map 91 52 84 65
- Step V: map make micro margin morales 72 my 91 52 84 65 36
- Step VI: my map make micro margin morales 91 52 84 65 36 27
- 91. (3) The elements 'morales 63 72 my map 91' are found in the same order in the Fourth step.
- 92. (1) The element '72' is at the seventh position from the right end in the Fifth Step.
- 93. (2) 10th from the right end of the Third Step \Rightarrow morales 5th to the right of 'morales' \Rightarrow map
- 94. (4) Option (4) is the Third Step.
- 95. (5) The elements '63 make' are exactly between 'micro' and '72' in the Second Step.

(96 – 100):

capitalcities
$$\Delta relcrowded \rightarrow $\langle U$ sn Δph becrowdedcities $\Delta rel(chaos) \rightarrow shbe $\langle U$ $\langle n \rangle$ kahugeindustry $\Delta relhuge(chaos) \rightarrow ka $\langle ph$ $\langle n \rangle$ kaindustries $\Delta relhuge(chaos) \rightarrow ka $\langle ph$ $\langle n \rangle$ ka96. (3)crowded cities \Rightarrow sh behugeindustry \Rightarrow db ka'ck' may be the code for 'have'.97. (1)chaos \Rightarrow ro98. (5)huge'ka' or 'db'cities \Rightarrow 'sh' or 'be'create \Rightarrow nt$$$$$

chaos \Rightarrow ro 99. (2) capitals \Rightarrow Ju are \Rightarrow pi chaos \Rightarrow ro

100. (4) huge industry \Rightarrow ka db