

SBI Clerk Preliminary Grand Test –SCP-180220

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

- 1.(4) 2.(1)
 3.(5) 4.(3) 5.(3)
 6.(3) Gloated means dwell on one's own success or another's misfortune with smugness or malignant pleasure. So, Rejoiced is the word which is similar in meaning to it.
 7.(1) Accosted means approach and address (someone) boldly or aggressively. So, addressed is the word which is similar in meaning to it.
 8.(5) Tormented means cause to experience severe mental or physical suffering. So, tortured is the word which is similar in meaning to it.
 9.(4) Convulsed means shake uncontrollably/violently. So, pacified is the word which is opposite in meaning to it.
 10.(2) Besieged means surround and harass. So, freed is the word which is opposite in meaning to it.
 11.(3) Double negatives should never be used in a sentence. It makes an error. So, remove 'No'
 12.(4) By/to should be used in place of 'at'

- 13.(3) The verb 'are' should follow the noun 'other topics'. To which it refers. The (3) part of the sentence should be 'know what other topics are most'.
 14.(1) The comparative should be uniformly used. Both adjectives 'smooth' and 'easy' should be in same form. 'Smoother and easier' is the correct usage.
 15.(4) The article 'the' is necessary before 'entertainment industry'
 16.20. The correct sequence is FEDCBA.
 'ED' makes a mandatory pairs as they are linked with the word 'too'.

- 16.(5) 17.(4)
 18.(1) 19.(1) 20.(3)
 21.(4) 22.(4)
 23.(1) 24.(3) 25.(3)

27.(3) Twins are usually similar in appearance but to say that "nobody believed they were twins" means they were different in appearance.

28.(3) When a person starts doing something after completing a job, we use "Having + V3 +..."

29.(1) After 'one of' a plural noun is used. Hence 'the function' should be 'the functions'.

30.(4) The use of 'each' in the sentence suggests a singular number hence 'their' should replace with 'his'.

31. (2) Let the person buy 10 articles.

$$\text{Total CP} = \text{Rs.} \left(1 + \frac{5}{4}\right) = \text{Rs.} \frac{9}{4}$$

$$\text{SP of 10 articles} = \text{Rs.} \frac{2}{9} \times 10 = \text{Rs.} \frac{20}{9}$$

$$\therefore \text{Loss} = \text{Rs.} \left(\frac{9}{4} - \frac{20}{9}\right)$$

$$= \text{Rs.} \left(\frac{81 - 80}{36}\right) = \text{Rs.} \frac{1}{36}$$

Now, If loss is $\text{Rs.} \frac{1}{36}$, number of articles = 10

\therefore If loss is Rs. 3, number of articles = $36 \times 10 \times 3 = 1080$

32. (2) CP of 120 exercise books = $\text{Rs.} (120 \times 3) = \text{Rs.} 360$

SP of 40 at Rs. 4 each = $\text{Rs.} (40 \times 4) = \text{Rs.} 160$

SP of 60 at Rs. 5 each = $\text{Rs.} (60 \times 5) = \text{Rs.} 300$

SP of remaining 20 books = $\text{Rs.} (20 \times 3) = \text{Rs.} 60$

Total SP = $\text{Rs.} (160 + 300 + 60) = \text{Rs.} 520$

Profit % = $\text{Rs.} (520 - 360)$

= $\text{Rs.} 160$

$$\therefore \text{Profit\%} = \frac{160}{360} \times 100$$

$$= \frac{400}{9} = 44\frac{4}{9}\%$$

33. (1) Amount given to sons = $84100 \times \frac{1}{2} = \text{Rs.} 42050$

Amount given to B = $\text{Rs.} x$ (let)

\therefore Amount given to A = $\text{Rs.} (42050 - x)$

$$A = P \left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow (42050 - x) \left(1 + \frac{R}{100}\right)^2$$

$$\begin{aligned}
 &= x \left(1 + \frac{R}{100}\right)^5 \\
 \Rightarrow (42050 - x) &= x \left(1 + \frac{R}{100}\right)^2 \\
 \Rightarrow (42050 - x) &= x \left(1 + \frac{5}{100}\right)^2 \\
 \Rightarrow (42050 - x) &= x \left(1 + \frac{1}{20}\right)^2 \\
 \Rightarrow 42050 - x &= x \left(\frac{21}{20}\right)^2 \\
 \Rightarrow 42050 - x &= \frac{441x}{400} \\
 \Rightarrow 42050 &= \frac{441x}{400} + x \\
 \Rightarrow 42050 &= \frac{441x + 400x}{400} \\
 &= \frac{841x}{400} \\
 \Rightarrow 841x &= 42050 \times 400 \\
 \Rightarrow x &= \frac{42050 \times 400}{841} \\
 &= \text{Rs. } 20,000
 \end{aligned}$$

34. (2) If A alone does the work in x days and B alone does the work in y days, then

$$\begin{aligned}
 \frac{1}{x} + \frac{1}{y} &= \frac{1}{5} \dots (i) \\
 \text{Again, } \frac{2}{x} + \frac{1}{3y} &= \frac{1}{3} \dots (ii) \\
 \text{By equation (ii)} \times 3 - (i). \\
 \frac{6}{x} + \frac{1}{y} - \frac{1}{x} - \frac{1}{y} &= 1 - \frac{1}{5} \\
 \Rightarrow \frac{5}{x} &= \frac{4}{5} \\
 \Rightarrow \frac{6-1}{x} &= \frac{4}{5} \\
 \Rightarrow x &= \frac{25}{4} = 6\frac{1}{4} \text{ days.}
 \end{aligned}$$

35. (1) Let the trains meet after t hours
Then, $21t - 16t = 60$
 $\Rightarrow 5t = 60$
 $\Rightarrow t = 12$ hours
 \therefore Distance between A and B
 $= (16 + 21) \times 12$
 $= 37 \times 12 = 444$ miles

36. (4)

3601	3602	1803	604	155	36	12
↑	↑	↑	↑	↑	↑	↑
+1+1	+2+2	+3+3	+4+4	+5+5	+6+6	

154 is written in place of 155.

37. (2)

4	12	45	196	1005	6066	42511
↑	↑	↑	↑	↑	↑	↑
$\times 2+(2)^2$	$\times 3+(3)^2$	$\times 4+(4)^2$	$\times 5+(5)^2$	$\times 6+(6)^2$	$\times 7+(7)^2$	

42 is written in place of 45.

38. (1)

2	6	12	20	30	42	56
↑	↑	↑	↑	↑	↑	↑
+4	+6	+8	-10	+12	-14	

8 is written in place of 6.

39. (5)

32	16	24	60	210	945	5197.5
↑	↑	↑	↑	↑	↑	↑
$\times 0.5$	$\times 1.5$	$\times 2.5$	$\times 3.5$	$\times 4.5$	$\times 5.5$	

65 is written in place of 60.

40. (4)

7	13	25	49	97	193	385
↑	↑	↑	↑	↑	↑	↑
+6	+12	+24	+48	+96	+192	

194 is written in place of 193.

41. (4) Total age of son and mother
 $2x + 7x = 2 \times 27$
 $9x = 54$
 $x = 6$

42. (2) \therefore Mother's age after 7yr = $7x + 7 = 7 \times 6 + 7 = 49$ yr
Let total monthly income of Mr. Giridhar be Rs. x.
After spending 50%, remaining = $\frac{x}{2}$
 \therefore According to the question,
 $\frac{x}{2} - \frac{x}{2} (50\% + 25\% + 10\%) = 900$
 $\Rightarrow \frac{x}{2} - \frac{x}{2} \times \frac{85}{100} = 900 \Rightarrow \frac{x}{2} - \frac{17x}{40} = 900$
 $\Rightarrow \frac{40}{40} = 900$
 $\therefore x = \frac{900 \times 40}{3} = \text{Rs. } 12000$

43. (1) Circumference of circular plot = $\frac{3300}{15} = 220$
 $\Rightarrow 2\pi r = 220$
 $\therefore r = \frac{220}{2 \times 22} \times 7 = \frac{55 \times 7}{11} = 35$ m
Total cost of flooring the plot = $\pi r^2 \times 100$
 $= \frac{22}{7} \times 35 \times 35 \times 100 = \text{Rs. } 385000$

44. (1) $P = \frac{SI \times 100}{R \times T} = \frac{6500 \times 100}{8 \times 13} = 6250$
Rate of CI at the rate of 8% for 2 yr
 $= 8 + 8 + \frac{8 \times 8}{100}$
 $= 16.64\%$
 $\therefore CI = \frac{16.64}{100} \times 6250 = \text{Rs. } 1040$

45. (2) Akash scored in subject A = 73 marks
Akash scored in subject B = 56% of 150
 $= 150 \times \frac{56}{100} = 84$ marks

Akash scored in subject C = X marks
Maximum mark of all three subjects is 150.
 \therefore Total marks = $150 \times 3 = 450$
Now, according to the question
Marks obtained in subject A + Marks obtained in subject B
+ Marks obtained in subject C
= 54% of total marks

$$\Rightarrow 73 + 84 + X = 450 \times \frac{54}{100}$$

$$\begin{aligned} \Rightarrow X + 157 &= 243 \\ \Rightarrow X &= 243 - 157 = 86 \\ \Rightarrow X &= 86 \end{aligned}$$

Hence, Akash scored 86 marks in subject C.

46. (1) Let time taken by to complete work 1 individually with efficiency of Monday = $2x$ and $3x$

So,

$$\frac{1}{2x} + \frac{1}{3x} = \frac{1}{3}$$

$$\frac{5}{6x} = \frac{1}{3}$$

$$x = \frac{5}{2}$$

Let time taken by A & B to complete work 2 individually with efficiency of Friday

$$\begin{aligned}
 &= 4x, 5x \\
 \text{Since} \\
 5x &= 10 \\
 x &= 2 \\
 \text{So, } 4x &= 8
 \end{aligned}$$

$$\text{Required ratio} = \frac{2 \times \frac{5}{2}}{8}$$

$$= 5 : 8$$

47. (2) Time taken by A to complete whole of work 1 with efficiency of Monday = 5 days
Time taken by B to complete whole of work 1 with efficiency of Wednesday

$$9x, 7x$$

$$\text{So } \frac{1}{9x} + \frac{1}{7x} = \frac{1}{6}$$

$$\text{so } \frac{1}{9x} + \frac{1}{7x} = \frac{1}{6}$$

$$\frac{16}{63x} = \frac{1}{6} \Rightarrow x = \frac{32}{21}$$

$$\text{so, } 7x = 7 \times \frac{32}{21}$$

$$= \frac{32}{3} \text{ day}$$

$$\text{Required percentage} = \frac{\frac{32}{3} - 5}{\frac{32}{3}} \times 100$$

$$= 53\frac{1}{8}\%$$

48. (1) Whole work 1 completed by A with efficiency of Monday = 5 days
 Whole work 1 completed by A with efficiency of Tuesday = $\frac{20}{3}$ days
 Whole work 1 completed by A with efficiency of Wednesday = $\frac{96}{7}$ days
 Whole work 1 completed by A with efficiency of Thursday = $\frac{85}{8}$ days
 Whole work 1 completed by A with efficiency of Friday = $\frac{72}{5}$ days

49. (2) B complete work 2 with efficiency of Wednesday is 15
 Let A and B complete work individually working with efficiency of Wednesday is 9x and 7x day.

$$\text{So, } 7x = 14$$

$$x = 2$$

$$9x = 18$$

$$\text{First two day work of both} = \frac{1}{14} + \frac{1}{18}$$

$$= \frac{9+7}{126}$$

$$= \frac{8}{63}$$

$$\text{In 14 day part of work complete} = \frac{56}{63}$$

$$\text{Remaining work} = \frac{1}{9}$$

$$\text{A will complete } \frac{1}{18} \text{ work on 15 day}$$

$$\text{Remaining will be complete by B on 16th day}$$

$$\text{i.e. } \frac{7}{9} \text{ day}$$

$$\text{so total time} = 15\frac{7}{9} \text{ day}$$

50. (1) Required percentage = $\frac{5}{108} \times 100$

$$= \frac{85}{108} \times 100$$

$$= \frac{8500}{108} \% = \frac{2125}{27} \%$$

51. (1) Req. ratio = $\frac{150 + 350 + 250}{150 + 400 + 300} = \frac{750}{850} = \frac{15}{17}$

52. (2) Total funds in 2002 = 250 + 200 + 150 = 600 crore

$$\text{Total funds in 2005} = 300 + 250 + 50 = 600 \text{ crore}$$

Both are equal, Hence 0%

53. (3) Fund allocated to Maharashtra in 2006 = 50 × 1.1 = 55 crore

$$\text{Fund allocated to Andhra Pradesh in 2006} = 300 \times 1.2 = 360 \text{ crore}$$

$$\text{Fund allocated to Karnataka in 2006} = 250 \times 1.4 = 350 \text{ crore}$$

$$\text{Req. average} = \frac{55 + 360 + 350}{3} = \frac{765}{3} = 255 \text{ crore}$$

54. (4) Fund allocated to Maharashtra in 2001, 2002, 2003 = 300 + 200 + 250 = 750

Fund allocated to Karnataka in 2003, 2004, 2005 = 200 + 350 + 250 = 800

$$\text{Req. \%} = \frac{(800 - 750)}{800} \times 100 = \frac{50}{8} = 6.25\%$$

55. (1) Req. Average = $\frac{600 + 600}{2} = 200$

56. (5) x = 15, 3; y = 3, 15; Relationship

57. (3) x = 5, y = 9, 9 y > x.

58. (4) x = 3, 2; y = 3, $\frac{7}{2}$ ∴ x ≤ y

59. (3) x = -1, $\frac{1}{2}$; y = $\frac{2}{3}$, $\frac{3}{4}$; ∴ y > x

60. (1) x = $\pm \frac{1}{4}$; y = $-\frac{1}{3}$, -2; ∴ x > y

61. (3) ? = 8787 ÷ 343 × $\sqrt{50}$
 = 25.61 × 7.07 = 181.06 ≈ 180

62. (2) $\sqrt[3]{54881} \times (303 \div 8) = (?)^2$
 or, 38 × 37.8 = (?)² (∵ 37.8 ≈ 38)
 or, 38 × 38 = (?)²
 ∴ ? = $\sqrt{38 \times 38} = 38$

63. (3) ? = $\frac{5}{8} \times 4011.33 + \frac{7}{10} \times 3411.22$
 = $\frac{20056.65}{8} + \frac{23878.54}{10}$
 = 2507.08 + 2387.854 = 2507 + 2387
 = 4897 ≈ 4890

64. (5) ? = 23% of 6783 + 57% of 8431
 = $\frac{23}{100} \times 6783 + \frac{57}{100} \times 8431$
 = 23 × 67.83 + 57 × 84.31
 = 1560.09 + 4805.67 = 6365.76 ≈ 6360
 ? = 335.01 × 244.99 ÷ 55
 = 335 × 245 ÷ 55
 = 335 × $\frac{245}{55} = \frac{82075}{55} = 1492.27 \approx 1490$

- 66-70. Logic:- (i) Opposite of all the vowels in the word according to decreasing English alphabetical series.
 (ii) Than total number of letter in the word plus 2.
 (iii) Opposite of the first letter of the word in the English alphabetical series.

For example:- "People"

(i) Opposite of all the vowel in the word according to English alphabetical series= VVL

and write it decreasing alphabetical order

(ii) Than total number of letter in the word plus 2 = 6+2=8

(iii) Opposite of the first letter of the word= K in the english alphabetical series

Code is= VVL8K

66. (4)

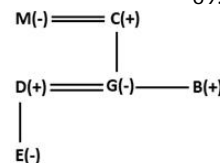
67. (1)

68. (1)

69. (2)

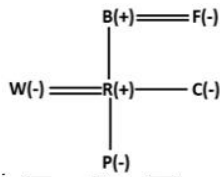
71. (5)

70. (5)



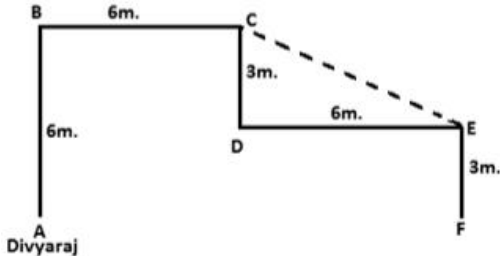
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72. (1)

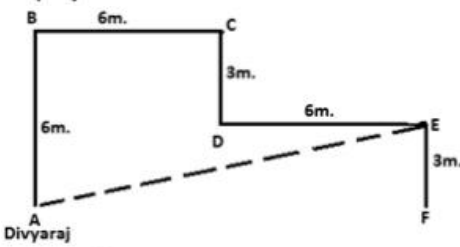


73. (2)

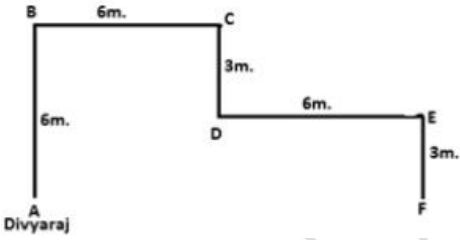
$\sqrt{36} + \sqrt{9} = \sqrt{45} = 3\sqrt{5}$



74. (4)

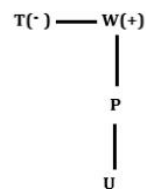


75. (5)

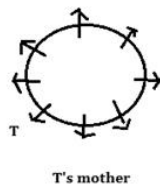


76-80.

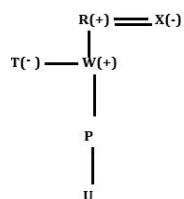
From all the condition which is given in this puzzle, is sufficient to arrange the seating arrangement and their blood relation. There is a condition, T who is the aunt of P, is the sister of W and W is the grandfather of U. The one who sits immediate right of T's mother is W's sister.



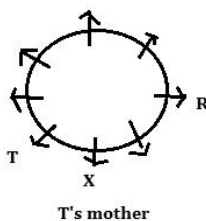
and



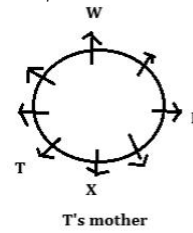
Now, X is the mother of W and The one who sits 2nd left of X is R who is the oldest member of this family. There is 4 generation in this family. X has only two children. From above condition, we can see that X is the mother of T. and R is the oldest person that means he/she will belong to 1st generation and he will be the husband of X. so,



And

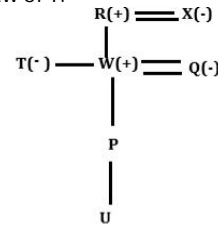


Now, The son of R sits 3rd right of W's sister. We know that W is the son of R, so

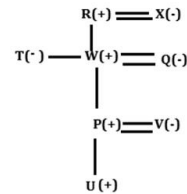


T's mother

Q has one grandson who sits immediate right of her and Q is the sister in law of T.

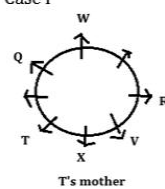


V's husband is the only child of Q and The mother in law of V sits opposite to V.



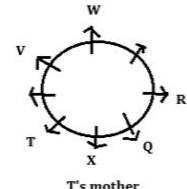
And we can see that mother in law of V is Q, so there is two case,

Case I



T's mother

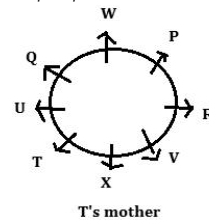
Case II



T's mother

Q has one grandson who sits immediate left of her and Father of U is immediate neighbor of W. Now we can see in above case II that the grandson of Q, means U can be seated in immediate left of Q, so Case II will be eliminated.

And Father of U is P, So,



T's mother

76. (4)

78. (3)

81-85.

77. (1)

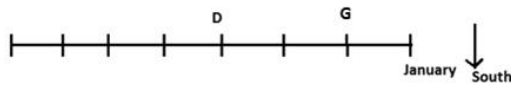
79. (5)

80. (1)

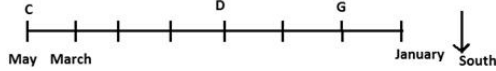
In this puzzle, there is some condition to solve this problem.

The one, who sits at extreme end, has birthday in January. D sits 3rd right of the one whose birthday is in January, who is neighbor of G.

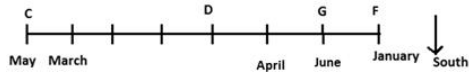
In this condition, we can see that the one whose birthday is in January, sits at right most bench side, since since all are facing towards South, and D sits right of it.



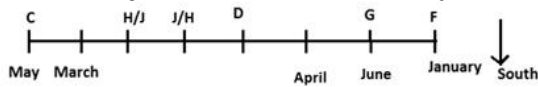
Now, There are 3 person sits between D and C. The one who has birthday in the month whose starting letter is M, sits together. C has birthday in May. That month whose name's starting letter is M, is March and May.



G sits immediate left of the one whose birthday is in April. The immediate right of the who sits at extreme end, has birthday in June and F has birthday in January.

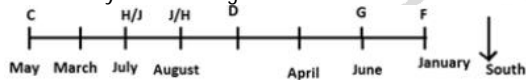


H and J sits together but both have not birthday in March.

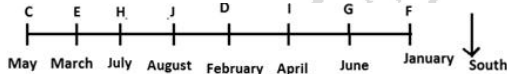


The one whose birthday is in July is immediate right of the one whose birthday is in August.

D's Birthday is not in August.



J has not birthday is in July. I does not sit to immediate of H.



81. (3)

82. (5)

83. (1)

84. (4)

86. (3)

Only 543 and 618 will be divisible by 3 when added 3 to second digit of each number.

85. (5)

87. (2)

862 953 543 861 764

88. (2)

6 ÷ 2 = 3

89. (4)

1163 660 844 919 768

90. (2)

268 953 345 816 764

91-92.



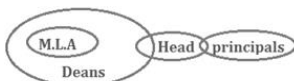
91. (5)

92. (2)

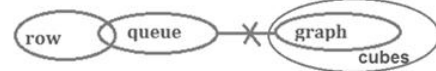
93. (3)



94. (1)



95. (3)



96. (2)

Statements:
 $U \geq N < W \leq R = D$
Conclusions:
 I. $U \geq W$ (FALSE)
 II. $D \geq W$ (TRUE)
 III. $N < R$ (TRUE)
 IV. $U < D$ (FALSE)

97. (2)

Statements:
 $B = H > E \leq L < P$
Conclusions:
 I. $B < P$ (FALSE)
 II. $P > E$ (TRUE)
 III. $H > L$ (FALSE)
 IV. $E = B$ (FALSE)

98. (1)

Statements:
 $M < T \geq J > K = Q$
Conclusions:
 I. $T > Q$ (TRUE)
 II. $J > Q$ (TRUE)
 III. $T \geq K$ (FALSE)
 IV. $M < Q$ (FALSE)

99. (3)

Statements:
 $R < D \geq L \leq M < P$
Conclusions:
 I. $M > R$ (FALSE)
 II. $D \geq P$ (FALSE)
 III. $L < P$ (TRUE)
 IV. $D = M$ (FALSE)

100. (4)

Statements:
 $W \leq F > M < D \leq T$
Conclusions:
 I. $F > D$ (FALSE)
 II. $T > W$ (FALSE)
 III. $M < W$ (FALSE)
 IV. $T > M$ (TRUE)