CAT 2003 Answer Key

1.	1	41.	1	81.	3	121.	3
2.	4	42.	3	82.	4	122.	1
3.	2	43.	1	83.	3	123.	4
4.	3	44.	1	84.	2	124.	2
5.	2	45.	3	85.	4	125.	4
6.	4	46.	3	86.	1	126.	3
7.	4	47.	1	87.	1	127.	4
8.	1	48.	2	88.	1	128.	4
9.	3	49.	3	89.	2	129.	3
10.	1	50.	3	90.	3	130.	2
11.	3	51.	4	91.	3	131.	1
12.	2	52.	2	92.	4	132.	3
13.	1	53.	4	93.	1	133.	2
14.	3	54.	2	94.	4	134.	3
15.	2	55.	1	95.	3	135.	4
16.	3	56.	3	96.	1	136.	3
17.	2	57.	4	97.	3	137.	2
18.	4	58.	4	98.	3	138.	3
19.	1	59.	1	99.	2	139.	1
20.	4	60.	2	100.	1	140.	4
21.	2	61.	3	101.	4	141.	4
21. 22.	2	61. 62.	3 2	101. 102.	4 3	141. 142.	4 1
21. 22. 23.	2 1 3	61. 62. 63.	3 2 4	101. 102. 103.	4 3 3	141. 142. 143.	4 1 2
21. 22. 23. 24.	2 1 3 3	61.62.63.64.	3 2 4 1	101. 102. 103. 104.	4 3 3 2	141. 142. 143. 144.	4 1 2 3
 21. 22. 23. 24. 25. 	2 1 3 3 2	 61. 62. 63. 64. 65. 	3 2 4 1 2	101. 102. 103. 104. 105.	4 3 3 2 3	141. 142. 143. 144. 145.	4 1 2 3 4
21. 22. 23. 24. 25. 26.	2 1 3 3 2 3	 61. 62. 63. 64. 65. 66. 	3 2 4 1 2 3	101. 102. 103. 104. 105. 106.	4 3 3 2 3 1	141. 142. 143. 144. 145. 146.	4 1 2 3 4 1
21. 22. 23. 24. 25. 26. 27.	2 1 3 3 2 3 3 3	61. 62. 63. 64. 65. 66. 67.	3 2 4 1 2 3 4	101. 102. 103. 104. 105. 106. 107.	4 3 3 2 3 1 2	141. 142. 143. 144. 145. 146. 147.	4 1 2 3 4 1 2
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21. 22. 23. 24. 25. 26. 27. 28. 29.	2 1 3 3 2 3 3 2 1	61. 62. 63. 64. 65. 66. 67. 68. 69.	3 2 4 1 2 3 4 3 1	101. 102. 103. 104. 105. 106. 107. 108. 109.	4 3 3 2 3 1 2 3 4	141. 142. 143. 144. 145. 146. 147. 148. 149.	4 1 2 3 4 1 2 1 1 1
21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	2 1 3 2 3 3 2 1 4	61. 62. 63. 64. 65. 66. 67. 68. 69. 70.	3 2 4 1 2 3 4 3 1 4	101. 102. 103. 104. 105. 106. 107. 108. 109. 110.	4 3 3 2 3 1 2 3 4 1	141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	4 1 2 3 4 1 2 1 1 2
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21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33.	2 1 3 2 3 3 2 1 4 1 2 3 3	61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73.	3 2 4 1 2 3 4 3 4 3 1 4 2 1 1 1	101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113.	4 3 2 3 1 2 3 4 1 3 2 4 1 3 2 4 4 4	141. 142. 143. 144. 145. 146. 146. 147. 148. 149. 150.	4 1 2 3 4 1 2 1 1 2
21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34.	2 1 3 2 3 3 2 1 4 1 2 3 1 1	61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74.	3 2 4 1 2 3 4 3 1 4 2 1 4 2 1 1 4	101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114.	4 3 2 3 1 2 3 4 1 3 4 1 3 2 4 2 4 2	141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	4 1 2 3 4 1 2 1 1 2
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21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36.	2 1 3 2 3 3 2 1 4 1 2 3 1 2 2 2	61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76.	3 2 4 1 2 3 4 3 1 4 2 1 4 2 1 4 3	101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116.	4 3 3 2 3 1 2 3 4 1 3 4 1 3 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 2 3 4 4 2 3 4 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3	141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	4 1 2 3 4 1 2 1 1 2
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21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39.	2 1 3 3 2 3 3 2 1 4 1 2 3 1 2 2 2 1 4 1 2 2 2 1 4 1 2 2 1 4 1 2 3 1 2 3 3 2 1 4 3 3 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79.	3 2 4 1 2 3 4 3 1 4 2 1 4 3 1 4 3 3 2 4 3 2 4 3 2 4	101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116. 117. 118. 119.	4 3 3 2 3 1 2 3 4 1 3 4 1 3 2 4 2 4 2 4 2 4 2 3 3 3 3 3 3 3	141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	4 1 2 3 4 1 2 1 1 2



CAT 2003 Solutions

1.	
	The correct idiomatic expression is "tall back on". "on the fatalism" is wrong in that fatalism has been used in a very general way and not in any
	special sense. Please remember that fatalism is
	only one explanation so the expression
	explanations in line C is wrong.
2.	Not only has to be coupled with but also to make it
	correct. Line C makes unnecessary use of two
	commas apart from having a wrong placement for
	<i>not only.</i> Line B changes the intended meaning by
	using <i>not regarded</i> , while line A uses the
	idiomatically wrong valuable for itself.
3.	Line D uses <i>consist</i> , which doe not gel with
	<i>running</i> , the subject in this case. A similar problem
	ails line A which uses the same combination. C,
	apart from being awkward, conveys a wrong
	meaning. Thus the only option which seems to
	convey the right idea is 2.
4.	Line B places sixteenth century at the wrong
	position, thereby rendering it awkward. Line D
	tends top convey a wrong idea.
5.	Line C makes an unnecessarily long sentence, while
	D changes the idea. Between A and B, the latter is
	better because if its being clear, unambiguous and
	crisp.
6.	It could have been a group of boy-scouts, a gang of
	boy scouts etc. A bundle of boy-scouts is certainly
	an unidiomatic expression.
8.	He is clear about would have been a much
	better and accepted expression.
9.	It should be <i>tea of sorts</i>
10.	The intended idea is that of effort, while implication
	means involvement in some wrong-doing, because
	of which it is a misfit.
11.	E is a brilliant general, introductory comment,
	being further elaborated by B. Besides, line A is
	continued beautifully by D.
12.	continued beautifully by D. A makes for a good general, opening line. B-D
12.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B.
12.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each
12.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other.
12. 13.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A,
12. 13.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3
12. 13.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out
12. 13. 15.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a
12. 13. 15.	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically
12. 13. 15.	continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair.
12. 13. 15.	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem
 12. 13. 15. 16. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college
 12. 13. 15. 16. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment.
 12. 13. 15. 16. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more
 12. 13. 15. 16. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one.
 12. 13. 15. 16. 17. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled
 12. 13. 15. 16. 17. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not
 12. 13. 15. 16. 17. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not make sense as to acquire something, one needs
 12. 13. 15. 16. 17. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not make sense as to acquire something, one needs cash. The third option could have correct but for the
 12. 13. 15. 16. 17. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not make sense as to acquire something, one needs cash. The third option could have correct but for the absence of <i>of</i> after the word <i>dispose</i>.
 12. 13. 15. 16. 17. 18. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not make sense as to acquire something, one needs cash. The third option could have correct but for the absence of <i>of</i> after the word <i>dispose</i>.
 12. 13. 15. 16. 17. 18. 	 continued beautifully by D. A makes for a good general, opening line. B-D make an excellent pair for D tends to support B. Again C-E seem to be in good company with each other. A-B form a good pair as B is a consequence of A, but it does no make any sense after D. So option 3 is ruled out C talks of a problem, E describes it while A offers a solution to it – CEA. Besides, BD form a logically connected pair. Option 1 is ruled out as the treatment of a problem cannot compound it. Friendship outside college does not facilitate the detection of maladjustment. Between the rest two, option 3 makes much more sense than the other one. One does not ratify defeat, thus option 4 is ruled out. The second word in the first option does not make sense as to acquire something, one needs cash. The third option could have correct but for the absence of <i>of</i> after the word <i>dispose</i>. Rewards are not conferred, ruling out option 3. The second word in option 2 does not fit in the context.

20.	Between options 1 and 4, the latter is more sensible, as <i>discrete</i> , despite meaning <i>separate</i> , does not imply <i>different</i> .
21.	But do not hurry the journey at all.
	Better if it lasts for years, so you are old by the time you reach the island,
22.	The last lines of the second and the fourth stanzas hold the key to this question.
23.	Wise as you will have become, so full of
	experience,
	you will have understood by then what these Ithakas mean
25.	It is quite an encouraging poem. Thus the answer is
	justified.
26.	Please refer back to the 4 th line of the 6 th paragraph.
27.	The anti-GM campaign has been quite effective
	in Europe, with several European Union member
	countries imposing a virtual ban
28.	You just need to go back to the very last paragraph.
29.	It is quite likely that the GM controversy will
	soon hit the headlines in India since a spokesperson
	of the Indian Central government has recently
	announced that the government may use the protato
	in its midday meal
31.	Please red the first few lines of the second
	paragraph.
32.	Interest, wonder, sympathy, and love, the first two
	leading to the last two, are the psychological
	prerequisites for social life; and the need for the
	first two must not be underrated.
33.	Please refer back to the first few lines of the 5 th
	paragraph.
35.	The penultimate paragraph contains the answer to
	this question.
36.	Please refer to the 4 th paragraph.
39.	The doctor's research sets up a link between the
	consumption of red wine and low incidence of heart
	disease. Obviously, only option 4 tends to support
	the doctor's conclusion.
40.	Please go back to the first few lines from the fifth
	paragraph.
41.	The last few lines of the 3 rd paragraph hold the
	answer to this one.
43.	After 1857, the British stopped annexing one
	princely state after another, and instead treated the
	princes as allies. 44. The white man's burden came
	up as a new moral rationale for conquest. It was
	supposedly for the good of the conquered
45.	Please go back to the concluding paragraph, last
	few lines to get the answer.
46.	it appeared unlikely that this
	mathematical law and order should turn out to be
	restricted to certain special
	phenomena all the physical
	processes of nature would prove to be unfolding
	themselves according to rigorous mathematical
	laws.
47.	Please refer to lines 4-5 of the first paragraph.



 So. Read the middle of the concluding paragraph to locate the answer. So. Here it would be futile for the students to compare all the universities stated above and hence they must keep in mind that they should look through the options and try to locate the answer! The best thing to be done would be to mark these universities in pencil and find the answer! Another thing to be moted is that the answer! Another thing to be moted is that the answer! Another thing to be the answer! Another thing to be the answer! Another thing to be the answer!). Hence 4th option. So. 2 (Stanford and New York). Northwestern has a tie at median salary and hence won't be considered. So. Reading all the rankings from the table, it is easy to see that 8 universities have single digit rankings on 3 of the 4 parameters. So. The most critical part is that an older child is always taller and weighs more than a younger child. Here, the number of children with Age 9 years or less is 48 (Not exceeding that ago) and the height of upto 135 cm. would mean a number of 45 students. Now since the limiting factor is 135 cm. as height, the number of students would be 45! So. The most confusing part here could be what values to consider and which ones to leave out. Here the critical data: an older child is always taller and weighs more than a younger child, would help in solving! 40 students are above 10 years of age, only 25 exceed 150 cm. in height and since the oldest students are the heaviest, 9 students out of this should be excluded! Hence, the answer! So. The number of children diverse of age. Only 25 exceed 150 cm. in height and since the oldest students are the heaviest, 9 students out of this should be excluded! Hence, the answer! So. A. Success rate for female 2003 = 637 / 60133 Success rate for female 2003 = 399 / 40763 so male success rate is higher & stmt is false. S. R. – female = -2002 = 118 / 15389 S. R female = -2003 = 399 / 40763 1^s	48.	The first few lines of the second paragraph hold the	
 1 Facta in matche of the conclusing paragraph to locate the answer. 51. Here it would be futile for the students to compare all the universities stated above and hence they must keep in mind that they should look through the options and try to locate the answer! The best thing to be done would be to mark these universities in pencil and find the answer! Another thing to be noted is that the answer is choice four, and hence, if the students have checked the first three choices they need not look at the fourth choice (which must be the answer!). Hence 4th option. 52. 2 (Stanford and New York). Northwestern has a tie at median salary and hence won't be considered. 53. Reading all the rankings from the table, it is easy to see that 8 universities have single digit rankings on 3 of the 4 parameters. 54. The most critical part is that an older child is always taller and weighs more than a younger child. Here, the number of children with Age 9 years or less is 48 (Not exceeding that age) and the height of upto 135 cm. would mean a number of 45 students. Now since the limiting factor is 135 cm. as height, the number of students would be 45! 55. The most confusing part here could be what values to consider and which ones to leave out. Here the critical data: an older child is always taller and weighs more than a younger child, would help in solving! 40 students are above 10 years, 25 exceed 150 cm. in height and 9 students weigh more than 48 Kg. Out of 40 students above 10 years of age, only 25 exceed 150 cm. in height and 31 ecr. 25 exceed 150 cm. in height and since the oldest students are the haviest, 9 students out of this should be eSt. However, there are 33 children who are less than 38 kg. Therefore the required answer should be 55. However, there are 33 children who are less than 38 kg. Therefore the required answer should be 51. However, there are 33 children who are less than 38 kg. Therefore the required answer should be 51. However, there are 33 childr	50	Key. Read the middle of the concluding paragraph to	6
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B. S. R - female - 2002 = 138 / 15389 S. R female - 2003 = 399 / 40763 1st much less than 10% 2nd is almost 10 %, but slightly lesser So stmt B is also false.758. $2002 - f - 48 / 19236 (2.5\%)$ $2002 - m - 171 / 61205 (2.8\%)$ so stmt A is false.758. $2002 - f - 48 / 19236 (2.5\%)$ $2002 - m - 171 / 61205 (2.8\%)$ so stmt A is false.759.A. F - absentees in $2002 =$ (19236 - 15389) / 19236 = 20% F - Absentees in $2003 =$ (45292 - 40763) / 45292 = 10%. So A is a true. B. M - Absentees in $2003 =$ (61205 - 5998) / 61205 = 20% This is higher than 10% So B is false.760.For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7761.Steel cos. With turnover > 2000 = 3. Profits for7		success rate is higher & stmt is false.	
3. K ternate 2003 - 399740/03 1 Hitten tess than 10% 2 nd is almost 10 %, but slightly lesser 50 So stmt B is also false. 7 2002 - f - 48 / 19236 (2.5%) 2002 - m - 171 / 61205 (2.8%) so stmt A is false. 7 S.R. 2002 - males - 171/684 7 S.R. 2002 - females - 48/138 so stmt. B is false. 7 59. A. F - absentees in 2002 = (19236 - 15389) / 19236 = 20% F - Absentees in 2003 = F - Absentees in 2003 = (45292 - 40763) / 45292 = 10%. So A is a true. B. M - Absentees in 2003 = (61205 - 5998) / 61205 = 20% This is higher than 10% So B is false. 7 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 7 61. Steel cos. With turnover > 2000 = 3. Profits for 7		B. S. R – temale – $2002 = 138 / 15389$ S. R famale – $2003 = 300 / 40763 - 1^{st}$ much lass	7
So stmt B is also false.58. $2002 - f - 48 / 19236 (2.5\%)$ $2002 - m - 171 / 61205 (2.8\%)$ so stmt A is false.S.R. 2002 - males - 171/684 S.R. 2002 - females - 48/138 so stmt. B is false.59.A. F - absentees in $2002 =$ 		than $10\% 2^{nd}$ is almost 10 %, but slightly lesser	
58. $2002 - f - 48 / 19236 (2.5\%)$ $2002 - m - 171 / 61205 (2.8\%)$ so stmt A is false.7S.R. $2002 - males - 171/684$ S.R. $2002 - females - 48/138$ so stmt. B is false.759.A. F - absentees in $2002 =$ $(19236 - 15389) / 19236 = 20\%$ F - Absentees in $2003 =$ $(45292 - 40763) / 45292 = 10\%$. So A is a true. B. M - Absentees in $2003 = (61205 - 5998) / 61205$ $= 20\%$ This is higher than 10% So B is false.760.For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10\% No=7761.Steel cos. With turnover > 2000 = 3. Profits for7		So stmt B is also false.	
$ \begin{array}{c} 2002 - m - & 1/1/61205 (2.8\%) \text{ so stmt A is} \\ \text{false.} \\ S.R. 2002 - males - 171/684 \\ S.R. 2002 - females - 48/138 \text{ so stmt. B is false.} \\ \begin{array}{c} 59. & \text{A. } F - \text{absentees in } 2002 = \\ (19236 - 15389) / 19236 = 20\% \\ F - \text{Absentees in } 2003 = \\ (45292 - 40763) / 45292 = 10\%. \text{ So A is a true.} \\ B. M - \text{Absentees in } 2003 = (61205 - 5998) / \\ 61205 \\ = 20\% \\ \hline \text{This is higher than } 10\% \text{ So B is false.} \\ \begin{array}{c} 60. & \text{For this draw a diagonal of the square of graph. All} \\ \cos above diagonal have profit margin > 10\% \text{ No=7} \\ \hline 61. & \text{Steel cos. With turnover > } 2000 = 3. \text{ Profits for} \\ \end{array} $	58.	2002 - f - 48 / 19236 (2.5%)	7
Thise.S.R. 2002 - males - 171/684S.R. 2002 - females - 48/138 so stmt. B is false. 59. A. F - absentees in 2002 =(19236 - 15389) / 19236 = 20% F - Absentees in 2003 =(45292 - 40763) / 45292 = 10%. So A is a true.B. M - Absentees in 2003 = (61205 - 5998) /61205= 20%This is higher than 10% So B is false. 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for		2002 - m - 1/1/61205 (2.8%) so stmt A is false	_
S.R. 2002 - females - 48/138 so stmt. B is false. 59. A. F - absentees in 2002 = (19236 - 15389) / 19236 = 20% F - Absentees in 2003 = (45292 - 40763) / 45292 = 10%. So A is a true. B. M - Absentees in 2003 = (61205 - 5998) / 61205 = 20% This is higher than 10% So B is false. 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for		S.R. $2002 - males - 171/684$	7
 59. A. F - absentees in 2002 = (19236 - 15389) / 19236 = 20% F - Absentees in 2003 = (45292 - 40763) / 45292 = 10%. So A is a true. B. M - Absentees in 2003 = (61205 - 5998) / 61205 = 20% 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for 		S.R. 2002 – females – 48/138 so stmt. B is false.	
	59.	A. $F - \text{absentees in } 2002 =$	
 (45292 - 40763) / 45292 = 10%. So A is a true. B. M - Absentees in 2003 = (61205 - 5998) / 61205 = 20% This is higher than 10% So B is false. 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for 		(19230 - 15389) / 19230 = 20% F - Absentees in 2003 =	
 B. M – Absentees in 2003 = (61205 – 5998) / 61205 = 20% This is higher than 10% So B is false. 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for 		(45292 - 40763) / 45292 = 10%. So A is a true.	
61205 = 20% This is higher than 10% So B is false.760.For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7761.Steel cos. With turnover > 2000 = 3. Profits for7		B. M – Absentees in 2003 = (61205 – 5998)/	
 = 20% This is higher than 10% So B is false. 60. For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7 61. Steel cos. With turnover > 2000 = 3. Profits for 		61205	
60.For this draw a diagonal of the square of graph. All cos above diagonal have profit margin > 10% No=7761.Steel cos. With turnover > 2000 = 3. Profits for		= 20% This is higher than 10% So R is false	
cos above diagonal have profit margin > 10% No=761.Steel cos. With turnover > 2000 = 3. Profits for	60.	For this draw a diagonal of the square of graph. All	7
61. Steel cos. With turnover > 2000 = 3. Profits for		cos above diagonal have profit margin > 10% No=7	7
	61.	Steel cos. With turnover $> 2000 = 3$. Profits for	1

	each of them profit less th	n are 120, 280, an 300.	& 330 So 2 c	os with
62.	Profit excee	ding 10% turn	over is cos ab	ove the
	diagonal. Si	x cos have turr	nover > 1000 .	Of the 6
	companies,	1 is textile so a	inswer is 5.	
63.	A 49	14 / 24568 :	= 20%	
	B 40	75 / 25468 =	= 16%	
	C 47	50 / 23752 =	= 20%	
	D 39	46 / 15782 :	= 25%	
64.	(2458 + 254	468)/89570 :	= 50036 / 895	70 = 56%
65.	Amt. was ur	der subscribed	d on foll date:	17–Jul –
	02, maturity	- 15 yrs o	nce	
66.	1. Not true	for 17- Jul, 9-A	Apr, 4 – Jun	
	2. does not	exceed on 4 –	Jun	
	3. True for	4- Jun		
67.	1. True			
	2. True on 3	3^{rd} – Apr 2^{nd} ro	ound	
	3. Low mat	urity \rightarrow higher	demand true.	
	4. Not true	for 07- Nov, 5-	- May, 2- July	r
68.	It is importa	nt to understar	d the meaning	g of the
	question. Th	e question ask	s you to ident	ify the
	increasing c	ategory, keepii	$\frac{1}{10}$ into the mi	nd the
	increase as c	compared to p	revious increa	ise. we find
	that linancia	a compared with a second	re increasing	but the
	reduced rate	egory annough	ance 3 rd optio	ng but at a
60	Health spam	$\frac{1}{10}$ Dec 02 – 1	$\frac{0\%}{0\%}$ of r	11.
09.	$I_{\rm up} 03 - 180$	$\frac{1}{2}$ of v	$\frac{9}{0}$ of λ .	
	Now $x > y$	So health span	n of Dec 02 w	as > health
	spam of Jun	03.	101 200 02 1	us > neurin
70.	Sep 02 is 25	% of x.		
/ 01	Mar 03 is 37	% of v.		
	If x <y f<="" th="" then=""><th>first one is sma</th><th>ller. But if x i</th><th>s much</th></y>	first one is sma	ller. But if x i	s much
	larger than y	then first one	can be bigger	. So cannot
	be determine	ed.		
71.	Seeta's rate	of growth start	ted to decline	after the 3 rd
	month – the	slope decrease	ed even thoug	h it
	continued to	increase.		
72.	Has to be Go	eeta. Her line f	for the $1^{st} 2 \text{ me}$	onths has
	the highest a	iverage slope.		
73.	Third month	Seeta has ver	y high slope.	The others
	lowest Opti	on 1	n but geeta re	aches the
74	Shyern grou	ull I.	row from 52	om to 62 In
/4.	contrast See	to grow from 5	f_{0} to f_{0} . The r	arcentage
	and absolute	a grew from 5	are less for sh	vam
75	Now at the 1	east one of the	min age per	son is
15.	always < 40	to 8 responde	ents are < 40	Now add
	the second n	nale from cell	2(32, 33) So a	$\frac{110}{10}$ is $\frac{9}{30}$
	= 30%		=(0=,00)500	
76.	Consider thi	s cell by cell		
_	Cell	At most > 35	. At lea	ast 35 – 40
77.	age			
	1(38, 38)	1		1
	5(34, 49)	4		0
	1(32, 32)	0		0
	8(35, 57)	7		1
	8(21, 65)	7		0
	3(37, 63)	3		1
	2(31, 33)	0		0
	2(27, 40)	1		1
-	Total	23		4
/6.	So ans 1s. 23	$\frac{12}{10} = \frac{16}{10}$		
70 70	50 ans 1s 4/3	50 = 13.33%	Diment	Teration of
/ð.	OP -	JU + JU	Direct	indirect
	UK =	keu + yell	22	22.3



	PI = 50 R + 50 W 18 17.5		Ratio of tir	nes tak	en by A	A and C	= 5 : 8		
	CR = 70W + 30 Y 22		If B takes y	secon	d then	C takes	y + 30	seco	nds to
	AV = 50 OR + 50 PI 19.75		run 1000 m	ı.					
	WO = 50 OR + 50 W 18.5		Hence 5 (y	+ 30) =	= 8x	(i)			
	For AV = 22 + 17.5 /2 = 39.5 /2 = 19.75		and <u>1000</u>	= <u>1000</u>	<u>)</u>	(ii)			
79.	WO = 25 R + 25 Y + 50 W. Ratio of 1: 1: 2		x+60	У					
80.	Price of $AV = 19.75$		Solving we	e get the	e values	s of x an	d y.		
	CR = 15 * 0.7 + 25 * 0.3 = 18.00. WO = 0.5 * 22 +		Hence both	n staten	nents ar	e requir	ed.		
	0.5 * 15 = 18.50 most profitable to sell CR	92.	Now given	that C,	the acc	countant	is ma	ried	to F
81.	C/D/1 E/F/2 E/F/3 B/4 C/D/5 A/G/6 A/G/7		the professo	or. It is	also gi	ven that	the la	wyer	is
	The above gives the persons possible at each place.		married to	housew	vife, D.	Also A	has ma	urried	a
	F cannot be at either end, so answer is option 3.		housewife.	Since t	here ar	e only ty	vo ma	rried	
82.	A will either have D, C or G as neighbour. Opt 4.		couples, A	has to	be the la	awyer.		r —	
83.	Since G is to extreme right, he can't sit next to B,				(F)	(M)	(F)	_	(F)
	So option 3.			A	В	С	D	Е	F
84.	Following are the rules		(F) HW 1	×	×	×	V	×	×
	1. $D \rightarrow \sim F$.		(F) HW 2	×	\checkmark	×	X	×	×
	2. $C \rightarrow Home / Fin / None$		(F) Prof	×	×	×	×	×	\checkmark
	3. $B \rightarrow Pav, D \rightarrow Tele / B - Tele, D \rightarrow Pav$		(M) Eng	×	×	×	×		×
	4. $E \rightarrow A$ Check each point for each rule		(M) Acct	×	×	\checkmark	×	×	×
	1. Rule 2 isolated		(M) Law	\checkmark	×	×	x	×	×
	2. Ok.			•					
	3. Ok Rule I isolated.	93.							
0.	4. Rule 2 isolated.				(F)	(M)	(F)		(F)
85.	Following assignments are possible			Α	В	С	D	Е	F
	$A \rightarrow Home$ $A \rightarrow Home$		(F) HW 1	×	×	×	\checkmark	×	×
	$C \rightarrow Fin$ $C \rightarrow Fin$		(F) HW 2	×	\checkmark	×	x	×	×
	$B \rightarrow Pao / tele B \rightarrow Power / tele$		(F) Prof	×	×	×	x	×	\checkmark
	$D \rightarrow Pao/tel D \rightarrow Det.$		(M) Eng	×	×	×	×		×
	$E \rightarrow Def. I \qquad E \rightarrow Power/tel$		(M) Acct	×	×	1	× ×	×	×
	1. Ok $A \rightarrow Home$		(\mathbf{M}) Law	2 V	~	· ·	~	\sim	~
	2. Ok $C \rightarrow Fin$		(111) 2411	Y	^	^	^	^	^
	3 NOT UK $B \rightarrow tele$								
96	4. Ok $E \rightarrow$ Power/ tel		E is an Eng	ineer.					
86.	4. Ok $E \rightarrow$ Power/ telG = A - 8A + G = 40D + P = 37A - G = 8	94.	E is an Eng	ineer.					
86.	4. Ok $E \rightarrow Power/tel$ $G = A - 8$ $A + G = 40$ $D + R = 37$ $A - G = 8$ $I = D + 8$ So $A = 24$ $G = 16$	94.	E is an Eng	ineer.	(F)	(M)	(F)		(F)
86.	4. Ok $E \rightarrow Power/tel$ G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19	94.	E is an Eng	ineer.	(F) B	(M) C	(F) D	E	(F) F
86.	4. Ok $E \rightarrow Power/tel$ G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D+ 5 So D = 19 A + G = 40 So J = 27	94.	E is an Eng	ineer.	(F) B ×	(M) C ×	(F) D √	E ×	(F) F ×
86.	4. Ok $E \rightarrow Power/tel$ $G = A - 8$ $A + G = 40$ $D + R = 37$ $A - G = 8$ $J = D + 8$ So $A = 24$ $G = 16$ $A = D + 5$ So $D = 19$ $A + G = 40$ So $J = 27$ So $R = 18$. Opt. 1 is right	94.	E is an Eng (F) HW 1 (F) HW 2	A A ×	(F) B × √	(M) C × ×	(F) D √ ×	E × ×	(F) F × ×
86. 87.	4. Ok $E \rightarrow$ Power/ tel G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19 A + G = 40 So J = 27 So R = 18. Opt. 1 is right D = 19, J = 27. So D+J = 46.	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof	A A × × ×	(F) B \times $$ \times	(M) C × × ×	(F) D √ × ×	E × ×	(F) F \times \times $$
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19 A + G = 40 So J = 27 So R = 18. Opt. 1 is right D = 19, J = 27. So D+J = 46. FS1 FS2 F M MS1 MS3 MS4	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng	A A × × ×	(F) B \times $$ \times \times	(M) C × × × ×	(F) D √ × × × ×	E × × ×	(F) F \times $$ $$ \times
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel $G = A - 8$ $A + G = 40$ $D + R = 37$ $A - G = 8$ $J = D + 8$ So $A = 24$ $G = 16$ $A = D + 5$ So $D = 19$ $A + G = 40$ So $J = 27$ $So R = 18. Opt. 1 is right$ $D = 19, J = 27. So D + J = 46.$ FS1 FS2 V / V	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct	A A × × × ×	(F) B × √ × × × ×	(M) C × × × ×	(F) D √ × × × × ×	$ E \\ \times \\ \times \\ \\ \times \\ $ \\	(F) F × × √ × ×
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel $G = A - 8$ $A + G = 40$ $D + R = 37$ $A - G = 8$ $J = D + 8$ So $A = 24$ $G = 16$ $A = D + 5$ So $D = 19$ $A + G = 40$ So $J = 27$ $So R = 18. Opt. 1 is right$ $D = 19, J = 27. So D + J = 46.$ FS1 FS2 F M MS1 MS1 MS3 $A / G = 30$	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law	A × × × × ×	(F) B × √ × × × × ×	(M) C × × × √ ×	(F) D √ × × × × × ×	E × × × × ×	(F) F \times $$ $$ \times \times \times
86. 87. 88.	A. Not OKDy tale4. OkE \rightarrow Power/ telG = A - 8A + G = 40D + R = 37A - G = 8J = D + 8So A = 24G = 16So D = 19A + G = 40So J = 27So R = 18. Opt. 1 is rightD = 19, J = 27. So D+J = 46.FS1FS2FMFS- Father sibling, MS - Mother sibling	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law	ineer. A \times \times \times \times \times \times 	(F) B × √ × × × × ×	(M) C × × × × × × × × × × ×	(F) D √ × × × × × × ×	$E \\ \times \\ \times \\ \times \\ \\ \times \\ \times \\ \times \\ \times$	(F) F \times $$ $$ \times \times \times
86. 87. 88.	A. Not OK $B \rightarrow$ Value4. Ok $E \rightarrow$ Power/ tel $G = A - 8$ $A + G = 40$ $D + R = 37$ $A - G = 8$ $J = D + 8$ So $A = 24$ $G = 16$ $A = D + 5$ $A + G = 40$ So $J = 27$ $So R = 18$. Opt. 1 is right $D = 19, J = 27$. So $D + J = 46$.FS1FS2FMFS - Father sibling, MS - Mother siblingA. tells us that FS1 & FS2 are uncles of S. So	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law We cannot	ineer. A \times \times \times \times \times \times \times \times	(F) B \times $$ \times \times \times sure at	(M) C × × × × × × × × v x x x x x x x x x x x	(F) D $$ \times \times \times \times \times $2 E so$	$E \\ \times \\ \times \\ \\ \times \\ \times \\ \times \\ \text{canned}$	(F) F \times $$ $$ \times \times \times x x x x x
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19 A + G = 40 So J = 27 So R = 18. Opt. 1 is right D = 19, J = 27. So D+J = 46. FS1 FS2 F M MS1 MS2 MS3 MS4 MS5 \setminus / S FS - Father sibling, MS - Mother sibling A. tells us that FS1 & FS2 are uncles of S. So mother has to have 2 brothers and 3 sisters. D descent tells us that results are fit the sibling	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law We cannot determined	ineer. A \times \times \times \times \times \times \times \times	(F) B \times \times \times \times sure at	(M) C × × × × × × $$ × out A δ	(F) D $$ \times \times \times \times \times $2 E so$	E \times \times $$ \times \times canne	(F) F \times $$ $$ \times
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19 A + G = 40 So J = 27 So R = 18. Opt. 1 is right D = 19, J = 27. So D+J = 46. FS1 FS2 F M MS1 MS2 MS3 MS4 MS5 \setminus / S FS - Father sibling, MS - Mother sibling A. tells us that FS1 & FS2 are uncles of S. So mother has to have 2 brothers and 3 sisters. B does not tell us about the gender of the siblings of M So entition 1	94.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law We cannot determined	ineer. A \times \times \times \times \times \times \times \times	(F) B \times \times \times \times sure at	(M) C × × × × × × $$ × out A 8	(F) D $$ \times	E × × √ × ×	(F) F × × × × × × ×
86. 87. 88.	4. Ok $E \rightarrow$ Power/ tel G = A - 8 A + G = 40 D + R = 37 A - G = 8 J = D + 8 So A = 24 G = 16 A = D + 5 So D = 19 A + G = 40 So J = 27 So R = 18. Opt. 1 is right D = 19, J = 27. So D+J = 46. FS1 FS2 F M MS1 MS2 MS3 MS4 MS5 \setminus / S FS - Father sibling, MS - Mother sibling A. tells us that FS1 & FS2 are uncles of S. So mother has to have 2 brothers and 3 sisters. B does not tell us about the gender of the siblings of M. So option 1 If same anded normally than he won Rs 100. Put	94. 95.	E is an Eng (F) HW 1 (F) HW 2 (F) Prof (M) Eng (M) Acct (M) Law We cannot determined Each frience	ineer. A \times \times \times \times \times say for I eats b	(F) B \times \times \times \times sure at oth idli	(M) C × × × × · · · · · · · · · · · · · · ·	(F) D \times \times \times \times \times \times \times \times	E × × √ × × ×	(F) F × × × × × × ×
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	D	×		×	×	×		generated by either treating 2517 as the maximum
	- B							or 1193 as minimum with difference of 1378 and
	D	X	×	×	V	×		prepare two charts. Treating 1193 as minimum will
		Chu	tney					have a contracting situation while comparing the
			Y	N				information of Holon and Dhonuka, Kooning 2517
	Ι	-	\checkmark	×				
	S		×					as max will generate $2517 - 1378 = 1139$ as the
	M							min amount spent which will belong to Chellama.
	IVI	;	×	V				After satisfying all the conditions we get the
	D	-	N	×				following information about the amounts spent:
	В	>	×					Shehnaz – 2517
	3 rd optio	m						Archana - 2234
96	Each frie	end eats h	oth idli	⊥ vada ev	cent one			Helen $= 1340$
<i>J</i> 0 .	Lacinine	nu cats t	Jour Iun	i vada cz	cept one			Dhenuke 1102
				T 111				$Cl_{1} = 1120$
				Idlis				Chellama - 1139
		1	4	5	6	8	99.	Since four figures are known to us the fifth figure is
	-				1			generated by either treating 2517 as the maximum
	1	×	×	×	N	×		or 1193 as minimum with difference of 1378 and
	S		×	×	x	×		prepare two charts. Treating 1193 as minimum will
	М							have a contrasting situation while comparing the
	IVI	×	N	×	×	×		information of Helen and Dhenuka Keening 2517
	D	×	×		×	×		information of freien and Dichuka. Reeping 2517
	R	~	~	~	~	2		as max will generate $2517 - 1578 = 1159$ as the
	Ь	^	^	^	<u>^</u>	V		min amount spent which will belong to Chellama.
				Wadas				After satisfying all the conditions we get the
		0	1	2	4	6		following information about the amounts spent:
	I	×	×	×	×			Shehnaz – 2517
	e e							Archana - 2234
	0	N	×	×	×	×		Helen - 1340
	M	×	×	N	×	×		Dhenuka 1103
	D	×	\checkmark	×	×	×		Challoma 1120
	В	×	×	×		×	100	
		Chu	tnev				100.	Since four figures are known to us the fifth figure is
		Citu	itile y	N				generated by either treating 2517 as the maximum
			Y I	IN				or 1193 as minimum with difference of 1378 and
	1	-	N	×				prepare two charts. Treating 1193 as minimum will
	S	>	×					have a contrasting situation while comparing the
	М		×					information of Helen and Dhenuka, Keeping 2517
	D		J					as max will generate $2517 - 1378 - 1130$ as the
			V	×				min amount spent which will belong to Chellama
	В	>	×	٧				
	1 st optior	1						After satisfying all the conditions we get the
97.	Each frie	end eats b	oth idli	+ vada ex	cept one			following information about the amounts spent:
					•			Shehnaz – 2517
				Idlie				Archana - 2234
				Iulis				Helen - 1340
		1	4	5	6	8		Dhenuka - 1193
	I	~	~	×		×		Chellama - 1139
	-	^		^	×	^	101	Let the radius of the sphere A be a and that of R be
	S	\checkmark	×	×	×	×	101.	h Since area is proportional to the square of the
	Μ	x		×	×	X		b. Since area is proportional to the square of the $\frac{1}{1}$
	D			al				radius we can say that $(D/a)^{-2} = 4/1$
	D	×	×	N	×	×		So $b/a = 2/1$. The volume has a cubic relationship,
	В	×	×	×	×			So $Vb / Va = (2/1)^3 = 8/1$. So $Vb - Va / Va = 7/8$
				Wadas				= 87.5 %
		0	1	2	4	6	102.	For a score of 32, the net rights has to be > 32
	-	U	1	2	4	0		Let the no. of rights be R
	I	×	×	×	×			Let the no of wrongs be W
	S	\checkmark	×	×	×	×		So no of non attempts would be 50 P W
	М	×	×		×	×		So no. of non-attempts would be $50 - K - W$
	D		al					52 = R - W/5 - (30 - R - W)/0
	D	×	N	×	×	×		Simplifying this we get,
	В	×	×	×	N	×		7R - W = 242. But R and W can only have integral
		Chu	tney					values. If we take W as 3, then 7 <i>R</i> is 245, in which
			Y	Ν				case R is 35.
	I		J	×			103.	a + 2d + a + 14d = a + 5d + a + 10d + a + 12d
	г С		1				1000	$0 = a + 11d$; $\Rightarrow 12^{th}$ term = 0
	3	,	×	N			104	$\log x - V \rightarrow \log V - \frac{1}{x} - \frac{10^{1/x} - V}{x}$
	M	>	×	\checkmark			104.	$\log_{10} x = A \implies \log_{10} A = 1/X \implies 10 = A,$ $r = \frac{V^{1/X}}{10} = 10$
	D	-	V	×				$\neg A = 10.$
	B		×					which will be possible for only one value of x
	3rd ontin		· .	•	I			between 2 and 3. So answer is option 2.
00	S opuo	/11 £".	1	4	4	c ·	105.	Let us assume he had 100 goats in the beginning
98.	Since for	ar ingures	s are kno	wn to us	ine fifth	ngure is		



	and p =10.		
	In Dec 98 he had how many goats - 100		
	In Jan 99, he added how much? - 10%		
	So how many does he have now? - 110		
	In Dec 99, now many goats? - 100		
	So now many did ne sell? - 10 As a new set to be sent in it? - 10 / 110 $-$ 0.0 $\%$		
	As a percentage now much is it? - $10/110 = 9.9\%$.		G + B = M
106	So $p > q$.		$G \cap B \cap M = 0$
100.	m/a A (700) = m/a P (1250) = Drofit		Only $G \cap M =$
	$1 4*75\pm5*80 6*75\pm10*80 75*20\pm80*30$		Only $B \cap M =$
	2 4*100+5*60 6*100+10*60 100*20+60*30		$\begin{array}{ccc} \text{Only} & B & \cap G \\ \text{No of motion to } 1 \\ \text{Only} & B \\ Onl$
	3.4*50+5*100 $6*50+10*100$ $50*20+100*30$		Total no. of projects > 1 cor
	4. 4*60+5*90 6*60+10*90 60*20+90*30		$G \pm B \pm M \pm 10 \pm 37$
	Only opt. 1 does not violate time avail on both m/c		S = G + B + M = 18
107.	Such a function has its minimum value when one of		Also $G + B = M + 16$
	the quantities inside the modulus function is zero.		G + B - M = 16. We s
	Substitute x= 2, 2.5 and 3.6.		B + M = 18. So $M = 1$
	1.0 + 0.5 + 1.6 = 2.1	115.	G cannot be determine
	2.0.5 + 0 + 1.1 = 1.6	116.	u is always negative
	3.1.6 + 1.1 + 0 = 2.7		minimum value of
100	So lowest is at x=2.5.		positive Also for th
108.	Let slow runner speed be $x \text{ m / min}$		numerator has to be
	so fast runner speed be $2x \text{ m/min}$		value and the denor
	1000 m / (2x - x) = 5 = 200 m / mm		smallest negative va
	Time taken for $4000 \text{ m} = 4000/400 \text{ m} = 10 \text{ min}$		to be 2 and 11 has to
109	Check each of the options $-$ and their representation		Hence the minimum
107.	in each notation.		
	Base		-+.
	2 3 5		the smallest negativ
	31 11111 1011 111		highest pegative vel
	63 111111 2100 223		and u has to have 0.5
	75 1001011 2210 300		I longe the maximum
	91 1011011 10101 331		
	All odd numbers will end with 1 in base 2 – also	117	= 4.
	they will start with base 1. Now if we look at the	117.	to 1 in which area it
	other condition, we have to find a number in which	110	1 + 3 + 6 + + 10 = 1 +
	in exactly one of the bases, it starts with 1. Check	110.	1+3+0++10=1+ 2+3+4)+(1-n)
	with $91 -$ the notation in base 3 starts with 1, that in		$=\sum n (n+1)/2 = \frac{1}{2}\sum$
110	base 5 doesn $1 -$ so this is the answer.		$\frac{1}{2}n(n+1)(2n+1)/2$
110.	substitute the values for p, q, r in the options and check		Substitute each of the
111	There are 51 even integers but of these 112–126	119.	1
111.	$140 162 180 196 ext{ are divided by 7 (7 nos)}$		20 10
	out of these 108, 126, 144,		
	9 (6 nos) & 126,is divided by both 7 & 9 so		
	answer is $51 - (7 + 6 - 1) = 39$.		
112.	If we consider the situation other wise, to satisfy		R - 10
	condition 2, the first person must have 26		
	acquaintances, the second 25, third 24 and so on. If		
	we continue, the last one should have 0		$R^2 - (R - 10)^2 + (R - 10)^2$
110	acquaintance, which is not possible.		or $R^2 - 60R + 500 = 0$
113.	We have to check by substituting different values of		R can't be 10: because
	X between $0 \approx 5$ $V = 5$ $V = V + 2$ max $(5 \times V + 2)$	120.	If $\angle APB = 60$, then /
	$\begin{array}{cccc} A & 5-A & A+2 & \operatorname{IIIdA}(5-A, A+2) \\ 0 & 5 & 2 & 5 \end{array}$		$AB = b \text{ consider } \Delta OA$
	1 4 3 4		$+ OP^2 = AP^2 => (b/\sqrt{2})$
	2 3 4 4		$2h^2 = b^2$
	3 2 5 5		
	Now value is between 1 & 2 so we check for 1.5		
	1.5 3.5 3.5 3.5		
114.	В		
			C C
	$G \sqrt{3} \sqrt{2} M$		
	$(\langle \langle 6 \rangle \rangle)$		
	(g (m)		
	\ ⁵ \ 8/ /		





	40 – 13, 17, 19, 23, 29, 31, 37.		So total no of ways is $\sum 6 = 6 * 7/2 = 21$.
138.	Let us substitute $X = 1$ $Y = 1$ $Z = 1$ then term = 6.	144.	Total purchase price for 3 bottles= 520 + 2 * 520 *
	If they are different then it would be more tha 6.		0.7 = 520 * 2.4 = 1248 baht. Thus each person has
139.	For $J=3$, there are 2^{n-3} students who answered 3 or		to pay 416 bahts each. <i>R</i> pays $2*46 = 92$ bahts
	more questions wrong So $J = 0$, there are two		M pays 4 * 46 + 27 = 211 bahts. Since M has paid
	students who answered wrong or more questions		415 - 211 = 204 less thus in dollars it would be 5 \$.
	wrong. So $(2^n - 2^{n-1})$ Answer 0 wrong	145.	R has paid 92 bahts, so he paid $416 - 92 = 324$ baht
	$(2^n - 2^{n-2})$ Answer 0 wrong. $(2^n - 2^{n-0})$ Answer 0	146.	Now if $16 = 2^4$ So b^{11} is definitely greater than 244
	wrong. Total no. of wrong answers is -		if b is greater than 16. Stmt. B alone is enough.
	$1 \left(2^{n-1} - 2^{n-2} \right) + 2 \left(2^{n-2} - 2^{n-3} \right) + 3 \left(2^{n-3} - 2^{n-4} \right) +$	147.	Substitute $-1/2$ in the eq ⁿ $4 * \frac{1}{4} - b/2 + c = 0$.
	$\dots \dots n (2-1) \cdot 2^{n-1} + 2^{n-2} + 2^{n-3} + \dots + 1 =$		So $b - 2c = 2$ equation we need one more eqn
	4095 GP with sum 1. $(2^n - 1)/2 - 1 = 4095$. $2^n - 1 = 4095$.		to get unique values of $b \& c$ either of the
	$4095. 2^n = 4096 = 2^{12}$. So $n = 12$		statements can provide that equation. So Ans. is 2
140.	They intersect when both Y are equal $X^3 + X^2 + 5 =$	148.	Statement 1 does not give any useful information.
	$X^{2} + X + 5$. => $X^{3} = X$. => $X = 0$ is a Solution, $X = 1$		Let the radius be R. We know AC is 2.5. Using
	is a Solution, $X = -1$ is a solu		segment B we can get $OC = R-5$, so we can then
141.	Let <i>n</i> be the number of elements in <i>T</i> . $467 = 3 + (n + 1)$		apply Pythagoras theorem and solve for R. Ans. is
	(-1) 8. $n - a = 464/8 + 1 = 59$ terms. Sum of the		1.
	first and the last term is $4/0$. (2 nd and 2 nd last also		
	etc.) The middle term is the 30^{m} any sum of the 1^{m}		
	30 or the last 30 terms will not yield 4/0.		
142.	The least number of edges will be when one point is		C
	connected to each of the other 11 points, giving a		AB
	total of 11 lines. One can move from any point to		
	any other point via the common point.	149.	In case a is -ve, LHS > RHS. If a is +ve (>1), LHS
	The maximum edges will be when a line exists		< RHS. A is not sufficient, but B gives a as 1/2 so it
	between any two points. max no. of edge = $12C_2$ =		alone is sufficient.
1.40	$\frac{12 + 11/2}{12} = 00$	150.	Area of DEF = $\frac{1}{4}$ (Area of ABC) stmt A gives us
143.	1 consecutive ball can be placed in 6 ways		the sides of triangle ADF. Whose area will be same
	2 in 5 ways, 5 in 4 ways, 4 in 5 ways, 5 in 2 ways		as DEF stmt B gives us sides of ABC, so area of
	and 6 in 1 way.		ABC can be calculated. Either stmt is enough.

