

## IBPS SO Preliminary Grand Test –ISP-181203

### HINTS & SOLUTIONS

#### ANSWER KEY

1. (1)	26. (1)	51. (2)	76. (5)	101. (1)	126. (2)
2. (2)	27. (5)	52. (5)	77. (3)	102. (2)	127. (4)
3. (5)	28. (3)	53. (1)	78. (1)	103. (4)	128. (1)
4. (2)	29. (5)	54. (2)	79. (5)	104. (3)	129. (2)
5. (4)	30. (4)	55. (5)	80. (2)	105. (5)	130. (2)
6. (5)	31. (2)	56. (4)	81. (4)	106. (3)	131. (4)
7. (2)	32. (3)	57. (5)	82. (5)	107. (4)	132. (2)
8. (1)	33. (5)	58. (3)	83. (2)	108. (5)	133. (2)
9. (5)	34. (5)	59. (2)	84. (2)	109. (3)	134. (4)
10. (1)	35. (2)	60. (5)	85. (1)	110. (5)	135. (3)
11. (2)	36. (4)	61. (2)	86. (2)	111. (2)	136. (2)
12. (4)	37. (2)	62. (4)	87. (1)	112. (1)	137. (1)
13. (4)	38. (4)	63. (2)	88. (3)	113. (5)	138. (3)
14. (5)	39. (3)	64. (5)	89. (5)	114. (3)	139. (4)
15. (1)	40. (1)	65. (4)	90. (1)	115. (1)	140. (3)
16. (4)	41. (5)	66. (1)	91. (4)	116. (1)	141. (1)
17. (5)	42. (1)	67. (5)	92. (4)	117. (5)	142. (2)
18. (2)	43. (2)	68. (4)	93. (3)	118. (2)	143. (5)
19. (2)	44. (5)	69. (5)	94. (2)	119. (5)	144. (4)
20. (1)	45. (1)	70. (1)	95. (4)	120. (1)	145. (5)
21. (1)	46. (4)	71. (4)	96. (1)	121. (3)	146. (4)
22. (2)	47. (3)	72. (4)	97. (3)	122. (5)	147. (4)
23. (5)	48. (2)	73. (4)	98. (2)	123. (4)	148. (4)
24. (5)	49. (2)	74. (5)	99. (5)	124. (2)	149. (4)
25. (4)	50. (3)	75. (5)	100. (4)	125. (1)	150. (3)

#### HINTS & SOLUTIONS

1. (1) It is given in the paragraph 3 that "It further assumes that all individuals have similar utility functions". Hence, (1) is the correct option.
2. (2) Refer to the first paragraph of the passage, whole paragraph deals with the Individuals.
3. (5) None of the given option is correct.
4. (2) Only option (2) is incorrect.
5. (4) It is given in the last paragraph that "Any change usually makes some people better off while making others worse off". Hence, we can conclude that (4) is the correct option.
6. (5) Rest of the options are explicitly given in the fifth paragraph.

7. (2) 'CARDINALLY' means 'of great importance'. Hence 'Prominently' is the word which is most similar in meaning to it.

8. (1) 'CONCERNED' means 'relate to; be about.'. Hence 'Be about' is the word which is most similar in meaning to it.

9. (5)

10. (1)

11. (2)

12. (4)

13. (4)

14-18. The correct sequence to form a meaningful paragraph is **FCBDEAHG**

14. (5)

15. (1)

16. (4)

17. (5)

18. (2)

19. (2)

Among the four options, sentences (1) and (3) are structurally incorrect and completely differ from the actual meaning of the sentence. Similarly, sentence (4) is incomplete and grammatically incorrect. However, sentence (2) adds meaning to the sentence as it follows the correct structure wherever required to bring out the grammatically correct sentence. Hence (2) is the correct choice.

20. (1) The first part of the sentence is grammatically correct, pointing something towards a general view. Thus it doesn't require any correction. In the second part of the sentence, the plural verb "do" should be replaced by its singular "does" as the noun it signifies is in singular form i.e. "conventional economics." It is to be noted that "Conventional economics" is regarded as singular as it is the name of the subject. The third part of the sentence is grammatically correct and does not require any correction. Hence (1) is the correct option.

21. (1) The phrase "**predicting Armageddon**" implies the possibility of an event of great destruction, or a dramatic and catastrophic conflict. Among the given three sentences, only statement (1) provides the exact and the most suitable meaning of the phrase in the context of its usage in the sentence. The other two statements give different meanings to the phrase which are illogical and not in the context of the meaning of the original sentence. Hence (1) is the correct choice.

22. (2) "attributed, inflexible" is the correct set of words that fit perfectly into both the sentences adding appropriate meanings to both the sentences. The word "**attributed**" means regarded something as being caused by. Thus other words make no relevant substitution as they do not add logical meaning to the sentences. The word "**inflexible**" means, unwilling to change or compromise. The word fits best into both the sentences as it can well be verified from the second sentence which comprises the similar adjectives for the noun "resolution." Hence (2) is the correct option.

**Summoned** means ordered (someone) to be present.

**Pliable** means easily influenced.  
**Chided** means scolded or rebuked.  
**Inexorable** means impossible to stop or prevent.  
**Unrelenting** means not yielding in strength, severity, or determination.

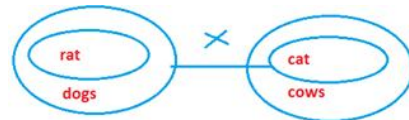
23. (5) All the three statements are possible with the given starters.  
 (I) Addressing the 8th Conference of the Association of SAARC Speakers and Parliamentarians, Sumitra Mahajan said that the Sustainable Development Goals (SDGs) should be implemented in the South East Asian region before any other place, as this geographical area held the key to fulfillment of these goals elsewhere.  
 (II) As the geographical area of the South East Asian region held the key to fulfillment of the Sustainable Development Goals (SDGs) elsewhere, Sumitra Mahajan, in her address to the 8th Conference of the Association of SAARC Speakers and Parliamentarians, said that the SDGs should be implemented in this region before any other place.  
 (III) While addressing the 8th Conference of the Association of SAARC Speakers and Parliamentarians, Sumitra Mahajan said that the Sustainable Development Goals (SDGs) should be implemented in the South East Asian region before any other place considering that this geographical area held the key to fulfillment of these goals elsewhere.

24. (5)  
 25. (4)  
 26. (1)  
 27. (5)  
 28. (3)  
 29. (5)  
 30. (4)  
 31. (2)  
 32. (3)  
 33. (5)

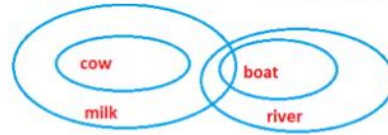
34. (5) The original sentence is correct and there is no need for improvement.  
 35. (2) The only problem with the original sentence is its structure. 'cells of the militants' should be replaced with 'the militants cells'. Moreover the use of the modifier 'only' at the appropriate place can make the sentence correct. Option (3) changes the meaning of the sentence and hence is eliminated.  
 36. (4) A question on parallelism. As the sentence has several 'actions', all the 'actions' must be in the same form. Only option (4) takes care of it. None of the other options follow the rule of the parallelism.  
 37. (2) Another question on parallelism which are only dealt with correctly in option (2)  
 38. (4) Despite should be used as a preposition not as a word joining clauses.  
 39. (3) It is a manifestation of anomic suicide hence option (3) is the correct choice for the given question.  
 40. (1) Furkheim was trying to document the fact that something as individualistic as suicide can be explained without reference to individuals.  
 41. (5) Durkheim uses all three as explanations for suicide within a social entity.  
 42. (1) Military personnel, trained to lay their lives for the country are more likely to commit suicide.  
 43. (2) Durkheim was successful on all three indicators that he based his contentions on.

44. (5) He has used all the given indicators to support his contentions. hence option (e) is the correct choice for the given question.  
 45. (1) This would happen due to a manifestation of strong individual ties.  
 46. (4)  
 47. (3)  
 48. (2)  
 49. (2)  
 50. (3)

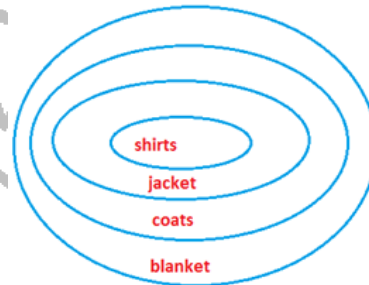
51. (2)



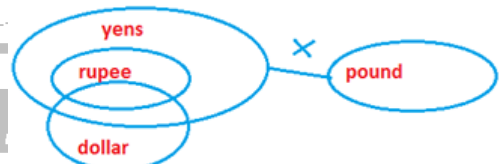
52. (5)



53. (1)



54. (2)

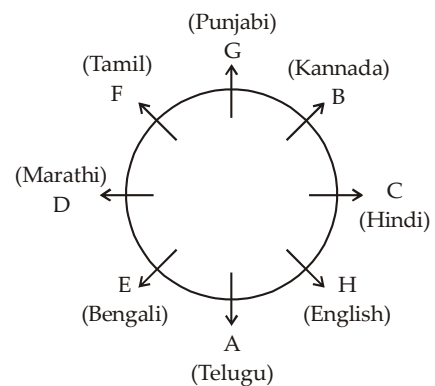


55. (5)



56. (4)  
 57. (5)  
 58. (3)  
 59. (2)

60-64.



60. (5)  
 61. (2)  
 62. (4)  
 63. (2)  
 64. (5)

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65-69. The machine rearranges one number and one word in each step. The words and numbers are arranged in alternatively in every step from both sides' right end and left end. The numbers are arranged in smallest even number from left to right with greatest odd number from right to left after then words are arranged in alphabetical consonant order from left to right with alphabetical decreasing vowel order from right to left.  
**Input: call 40 37 ice land 50 25 under ape same 33 18 38 mango 21 open.**

- Step I: 18 call 40 ice land 50 25 under ape same 33 38 mango 21 open 37.
- Step II: call 18 40 ice land 50 25 ape same 33 38 mango 21 open 37 under.
- Step III: 38 call 18 40 ice land 50 25 ape same mango 21 open 37 under 33.
- Step IV: land 38 call 18 40 ice 50 25 ape same mango 21 37 under 33 open.
- Step V: 40 land 38 call 18 ice 50 ape same mango 21 37 under 33 open 25.
- Step VI: mango 40 land 38 call 18 50 ape same 21 37 under 33 open 25 ice.
- Step VII: 50 mango 40 land 38 call 18 ape same 37 under 33 open 25 ice 21.
- Step VIII: same 50 mango 40 land 38 call 18 37 under 33 open 25 ice 21 ape.

- 65. (4)
- 66. (1)
- 67. (5)
- 68. (4)
- 69. (5)

70-74.

(M)	(F)	(F)	(F)	(M)	(M)	(M)
D	F	E	C	A/G	A/G	B
Surat	Jammu	Bikaner	Jalandhar	Ladakh	Srinagar	Chandigarh
6	7	1	2	3	4	5



- 70. (1)
- 71. (4)
- 72. (4)
- 73. (4)
- 74. (5)
- 75. (5)
- 76. (5)
- 77. (3)

From first statement, the order is C \_ A B. Hence B is to the immediate right of A. From second statement, the order is A B E. Hence B is to the immediate right of A. Hence either statement I or statement II alone is sufficient to answer the question

78. (1)

**From I:** If a month starts and ends with the same day of the week, it must have a complete number of weeks plus one more day. The only possible month is a 29 day February.

**From II:** In order to add up to 38, it can only be the highest possible number for the last Monday of a month (31) and the highest for the first Thursday of a month (7). Therefore, both last month and the current must have 31 days. The only two 31 day months in a row in the same calendar year are July and August. If both the months are from the same calendar year, August is our answer. But the statement does not say that both the months are from the same calendar year. Note that

79. (5)

December and January are also the months in a row which have 31 days each.

**From I and II together:** Every player takes an odd number of matches per play. After the first player goes, there will always be an odd number of matches left. After the second player goes, there will always be an even number of matches left. Therefore, the second player, i.e., Alka, is the winner.

80. (2)

**From II:** The first crossing took place at point A. Consider A as a new starting point. Do the same for every crossing point. Since they drove at consistent speeds, the distances from A to B, B to C and C to A are the same. After point A, one car must have driven twice the distance as the other to reach B at the same time. Therefore, one goes twice as fast as the other.

81. (4)

From I and II, the shortest distance between the two cities is more than 21 km but less than 23 km. The distance between the two cities may be 21.2 km, 21.9 km, 22.9 km.

82. (5)

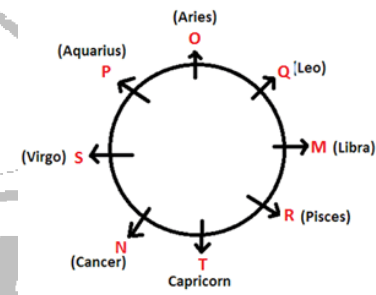
83. (2)

84. (2)

85. (1)

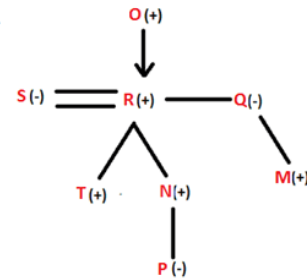
86. (2)

87-91.



Family Tree

- (+) → Male
- (-) → Female



87. (1)

87. (1)

88. (3)

89. (5)

90. (1)

91. (4)

92-96.

PERSONS	COUNTRIES	FRUITS	BRANDS
L	France	Guava	Killer
K	America	Apple	Levis
M	Finland	Mango	Mufti
N	Brazil	Banana	Flying Machine
O	Switzerland	Grapes	Van Heusen
P	Australia	Orange	Sparky
Q	Germany	Papaya	Spykar

92. (4)  
 93. (3)  
 94. (2)  
 95. (4)  
 96. (1)  
 97. (3)  
 98. (2)  
 99. (5)  
 100. (4)

101. (1)  $x = -\frac{3}{4}, -\frac{1}{2}$  „  $y = -3, -\frac{4}{5}$  ;  $x > y$   
 102. (2)  $x = -\frac{2}{3}, -\frac{1}{3}$  „  $y = -\frac{7}{4}, -\frac{2}{3}$  ;  $y \leq x$   
 103. (4)  $x = -\frac{5}{4}, \frac{1}{2}$  „  $y = \frac{4}{3}, \frac{1}{2}$  ;  $x \leq y$   
 104. (3)  $x = -3, \frac{3}{17}$  „  $y = 2, \frac{6}{13}$  ;  $x < y$

105. (5)  $x = 19,$  „  $y = 19;$   $x = y$   
 106. (3) C.I for 1st year = S. I for 1st year  
 = 10% of 3000 = 300  
 P for 2nd year = (3000 + 300) – 1000 = 2300  
 C. I for 2nd year = S.I of 2300 at 10% = 230  
 P for 3rd year = (2300 + 230) – 1000 = 1530  
 C.I for 3rd year = 10 % of 1530 = 153  
 Total amount pay at the end of 3rd year  
 = 1530 + 153 = 1683

107. (4) For half yearly R = 10%, T = 4 years

C.I. for 2 years =  $P \left[ \left( 1 + \frac{20}{100} \right)^2 - 1 \right]$

=  $P [(1.2)^2 - 1] = P [0.44]$

C.I. for 2 years and calculated half yearly

=  $P \left[ \left( 1 + \frac{10}{100} \right)^4 - 1 \right]$

=  $P [(1.1)^4 - 1] = P [1.4641 - 1] = P(0.4691)$

Now,  $P(0.4641) - P(0.44) = 482$

$\Rightarrow P(0.0241) = 482 \Rightarrow P = 20000$

108. (5) Efficiency Days  
 4 A 16  
 5 B 64/5 LCM 64  
 2 C 32

(A + B + C) work together for 4 days

=  $4 \times (4 + 5 + 2) = 44$

C work alone, last 3 days =  $3 \times 2 = 6$

Remaining work done by (B + C)

=  $\frac{64 - 50}{7} = \frac{14}{7} = 2$  days

Total days =  $4 + 3 + 2 = 9$  days.

109. (3) Let A complete the work in x days.  
 And B complete the work in y days.

So, By 1st case,  $\frac{2}{x} + \frac{9}{y} = 1$  ... (1)

And by 2nd case,  $\frac{3}{x} + \frac{6}{y} = 1$  ... (2)

From Eq. (1) & (2),  $y = 15$  days

110. (5) Efficiency, 1st group = 2nd group  
 $2m \times 1 \text{ hr.} = 3m \times 1.5 \text{ hr.} \Rightarrow 4m = 9m$

Or  $38m = \frac{9}{4} \times 38m = \frac{9}{2} \times 19m$

$\frac{M_1 \times D_1 \times H_1}{W_1} = \frac{M_2 \times D_2 \times H_2}{W_2}$

$\Rightarrow \frac{38m \times 6 \times 12}{1} = \frac{57m \times 8 \times x}{2}$

$\Rightarrow \frac{9}{2} \times 19m \times 6 \times 12 = 57m \times 4 \times x \Rightarrow x = 27$  days

111. (2) 50% of 27500 – 20% of 15000  
 = 10750

112. (1) Total bikes sold in 2009 =  $\frac{60}{100} \times 30000$   
 = 18000  
 i.e. second highest

113. (5) Required difference = 5500 – 4500 = 1000

114. (3) Percentage increase in production =  $\frac{20}{15} \times 100 = 133\frac{1}{3}\%$

Percentage increase in sales =  $\frac{9000}{12000} \times 100 = 75\%$

Required percentage =  $\frac{400}{3 \times 75} \times 100 = 177.78\%$

115. (1) In 2005, percentage increase in sales =  $\frac{3500}{2000} \times 100$   
 = 175%

116. (1) At the three years amount will be =  $15000 + \frac{15000 \times 3 \times 8}{100}$   
 = 18600 Rs.

Now, after three years C.I. annually

So amount =  $18600 \left( 1 + \frac{10}{100} \right)^2$

= 22506 Rs.

117. (5)  $\frac{P \times 4 \times 9}{100} - \frac{P \times 2 \times 12}{100} = 360$

$\frac{12P}{100} = 360$

P = 3000 Rs.

118. (2) Total distance = x km

Distance by train =  $\frac{x}{2}$  km

Distance by Feet =  $\frac{x}{2}$  km

Time taken to cover  $\frac{x}{2}$  by train =  $\frac{x}{50}$  hours

Time taken to cover  $\frac{x}{2}$  by foot =  $\frac{x}{8}$  hours

$\frac{x}{50} + \frac{x}{8} = 5 \frac{48}{60}$

$x = 40$  km

AB = 60 km

119. (5) Ram's speed = x kmph

Syham's speed = y kmph  $\frac{60}{x} - \frac{60}{y} = 1$  .....(i)

$\frac{60}{y} - \frac{60}{2x} = \frac{1}{2}$  .....(ii)

From (i) and (ii)

$x = 20$  kmph

120. (1) A : B = 5 : 3 = 10 : 6

B : C = 2 : 3 = 6 : 9

A : B : C = 10 : 6 : 9

Ratio for 1 year =  $(10x \times 12) : (6x \times 12) : (9x \times 6)$

= 20 : 12 : 9

Required difference =  $\frac{12-9}{41} = 12300$

= 900 Rs.

121. (3) Series is +23, +(23 × 2), +(23 × 3), +(23 × 4), +(23 × 5) and so on. Next number 739 + 23 × 6 = 927.

122. (5) Series is × 1 + 2, ×2 + 3, ×3 + 4 and so on. Next number is 3291 × 6 + 7 = 19753.

123. (4) Series is, ×1, ×(1 + 4), ×(5 + 4) = ×9, ×(9 + 4 = 13), and so on, Required number = 129285 × 21 = 2714985.

124. (2) Seires is 1<sup>4</sup>, 2<sup>4</sup>, 3<sup>4</sup>, 4<sup>4</sup> and so on; Next number is 2401.

125. (1) Series is ×2 + 6, ×2 + 6, ×2 + 6, ×2 + 6. Next number is 410.

126. (2) Required ratio =  $\frac{340+190+220}{240+320+220} = 25 : 26$

127. (4) Total students participated from college P = 840

from college Q = 900

from college R = 780

from college S = 740

from college T = 790

from college U = 730

from college V = 870

128. (1) Total students of acting = 2110

Required no. of students =  $\frac{60}{100} \times \frac{2}{3} \times 2110$

= 844

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129. (2) Required difference for college S = 340 – 140 = 200

130. (2) Required percentage =  $\frac{40}{780} \times 100 = 5.13\%$

131. (4) From I — 4% → 20  
100% → 500

Minimum passing marks =  $\frac{38}{100} \times 500 + 8 = 198$

From II,  
5% → 25  
100% → 500

Minimum passing marks =  $\frac{35}{100} \times 500 + 23 = 198$

From III,  
We can't determine the minimum passing marks from it.  
∴ with the help of statement I or II we can get the required value.

132. (2) From I, Total profit = 54000

Time = 1 year

From II, we will get the ratio of their investment = 3 : 4 : 2

From III, profit of V = profit of A + 4000

4x = 2x + 4000

2x = 4000

x = 2000

From II and either I or III, we can get the share of R.

133. (2) Let distance = d

Speed in still water = x

Speed of current = y

∴  $\frac{d}{x} = 2$

From A, d given

B,  $\frac{d}{x+y}$  = given

C, y = given, so upstream speed can be calculated by using any 2 of the 3 statements

134. (4) From I,  $\ell : b = 3 : 2$

From II, length = 48 m

Cost of flooring = 850 per sq m

∴  $\ell = 48$  m

b = 32 m

Area = 48 × 32

Required price = 48 × 32 × 850 Rs.

From III, perimeter = 160

Length = 3 × 16 = 48 m

Breadth = 16 × 2 = 32 m

∴ Required cost = 48 × 32 × 850 Rs.

∴ we can get the cost of flooring a rectangular hall any of the two statements.

135. (3) Let the required number = 10x + y

From I =  $x^2 + y^2 = 26$

From II, (10x + y) : (x + y) = 5 : 2

From III, x = y - 4

y - x = 4

We can get the value of and with the help of any of the two statements.

136. (2) Required ratio

$$= \frac{700 + 600 + 720}{750 + 560 + 750} = \frac{2020}{2060}$$
 i.e. 101 : 103.

137. (1) Total number of students from all the institutes in 2002 =

750 + 640 + 680 + 780 + 740 + 620 + 650 = 4860

∴ Required number of students passed

$$= \frac{70}{100} \times 4860 = 3402$$

138. (3) Number of students for all the given years in institute B =

640 + 600 + 620 + 660 + 760 + 740 + 700 = 4720

Total number of students passed

$$= \frac{60}{100} \times 4720 = 2832$$

Hence, average number of students passed

$$= \frac{2832}{7} = 404.57 \approx 405$$

139. (4) Required %

$$= \frac{640}{620 + 580 + 640 + 560 + 650 + 630 + 660} \times 100\%$$

$$= \frac{640}{4340} \times 100\% \approx 14.75\%$$

140. (3) Required difference

= (740 + 760 + 690 + 790 + 780 + 650 + 680) ~ (780 + 700 + 660 + 840 + 720 + 660 + 740)

= 5090 ~ 5100 = 5100 - 5090 = 10

141. (1) My per hour work =  $\frac{1}{15 \times 8} = \frac{1}{120}$

Your per hour work =  $\frac{1}{20 \times 9} = \frac{1}{180}$

Our per hour work =  $\frac{1}{120} + \frac{1}{180} = \frac{1}{40}$

Our per day work =  $12 \times \frac{1}{40} = \frac{3}{10}$

No. of days to complete the work =  $\frac{10}{3}$  days or  $3\frac{1}{3}$  days

142. (2) Let speed of A = x km/hr

Speed of B = y km/h

x + y =  $\frac{60}{6} = 10$  km/h

$\frac{2}{3}x + 2y = \frac{60}{5} = 12$  km/h

x = 6 km/h, y = 4 km/h

143. (5) Let the no. of coins be 5x, 6x, 8x

(1 × 5x) + (0.5 × 6x) + (0.25 × 8x) = 210

x = 21

Number of coins = 105, 126, 168

144. (4) Total investment of Suresh

= (40000) × 4 + (12000) × 3 + (12000) × 2 + (12000) × 1 = 232000 Rs.

Total investment of Ramesh = (85000) × 2 = 170000 Rs.

Ratio = 232 : 170 or 116 : 85

Difference in their shares =  $\frac{116-85}{116+85} \times 603000 = 93000$

145. (5) P + 2Q + R = 59

3P + Q + R = 68

P + 3Q + 3R = 108

Solving the equation, P = 12 years, Q = 15 years, R = 17 years.

Sum of their ages = 44 years.

146. (4) 
$$\frac{3420 \times 0.01}{19 \times 7} = \frac{3420}{19 \times 700} = \frac{9}{35}$$

147. (4) 
$$? = \frac{17.28}{3.6 \times 0.2 \times 200} = 0.12$$

148. (4)  $6.25 \times 0.25 + 0.75 - 0.3125 = 2.0000$

149. (4)

150. (3)  $25 \times 26 + 35 \times 34 + 39 \times 41$   
= 650 + 1190 + 1599  
= 3439