



## NATIONAL TALENT SEARCH EXAMINATION (STAGE - I) - 2019-2020(UP)

### Question Paper (MENTAL ABILITY)

Direction In question no 1 to 12 each question has four terms. Each term is alike in some way. One term is different from three others. Find out the correct term which is different from three others and write its alternative number of your answer sheet against the proper question number.

1. (1) R81 (2) L19 (3) W25 (4) M16
2. (1) CJM (2) PGW (3) RBT (4) SFH
3. (1) Z8R (2) Q13D (3) M22K (4) T14F
4. (1) BDG (2) HJM (3) QSV (4) KMH
5. (1) Lion (2) Deer (3) Wolf (4) Fox
6. (1) Labour (2) Doctor (3) Student (4) Tailor
7. (1) Deputy Chief Minister (2) Governor  
(3) Prime Minister (4) Chief Minister
8. (1) Kanpur (2) Lucknow (3) Meerut (4) Mirzapur
9. (1) 13, 7 (2) 24, 19 (3) 36, 27 (4) 45, 29
10. (1) 1980 (2) 1924 (3) 1946 (4) 1996
11. (1) 133 (2) 147 (3) 182 (4) 234
12. (1) 32.5 (2) 43.5 (3) 58.5 (4) 73.5

Direction- Question no 13 to 24 are based on number / letter series. In each series missing term is indicated by Blank space (\_). Find out the missing term out of the four alternatives given below and write its alternative number against the correct question number of your answer sheet-

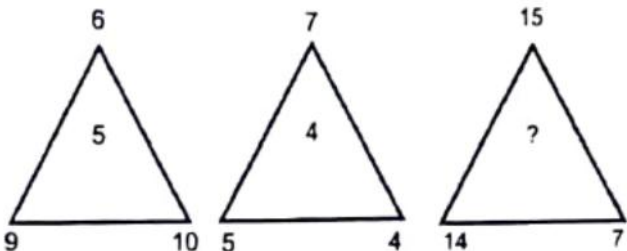
13. 1\_44\_6441\_661\_446\_ (1) 61416 (2) 16416 (3) 41416 (4) 64616
14. \_A\_CCA\_BC\_AABC\_ (1) ABACC (2) ABACB (3) CABCA (4) AABCC
15. 3, 8, \_\_, 68, \_\_, 608, 1823 (1) 25, 199 (2) 29, 205 (3) 23, 203 (4) 24, 136
16. 9, 64, \_\_, 216, 49, \_\_, 81 (1) 20, 72 (2) 25, 512 (3) 30, 64 (4) 32, 63
17.  $\frac{B}{5}, \frac{D}{12}, \frac{H}{24}, \frac{J}{13}, \frac{L}{36}, \frac{P}{48}$  (1)  $\frac{E}{15}, \frac{N}{18}$  (2)  $\frac{F}{18}, \frac{O}{16}$  (3)  $\frac{F}{9}, \frac{N}{17}$  (4)  $\frac{G}{9}, \frac{M}{17}$
18. 121, 144, 169, 196, \_\_ (1) 223 (2) 225 (3) 227 (4) 229
19. 216, 343, 512, 729, \_\_, 1331 (1) 1000 (2) 894 (3) 819 (4) 1211
20. 78Z, 6C, 15E, \_\_, 30J, 26M (1) 24H (2) 21G (3) 18I (4) 16H
21. F\_UR\_OU\_FO\_RF\_UR (1) OFRUO (2) FUOOR (3) FROUO (4) ROUFO
22. 0, 2, 6, \_\_, 20, 30, \_ (1) 8 (2) 10 (3) 12 (4) 16
23. 9, 10, 8, 11, \_\_, 12, 6, \_\_, 5 (1) 7, 13 (2) 6, 13 (3) 7, 12 (4) 8, 12
24. CD, XW, \_\_, VU, GH, \_\_, IJ, RQ (1) FE, TS (2) DE, UT (3) FG, ST (4) EF, TS
25. In a certain code language if HUNDRED is written as NUHDDER, what will be code of KITCHEN in same language? (1) HENTIKC (2) TIKCNEH (3) ITKHCNE (4) TKICNEH
26. In a certain code language if POSTMAN is written as OPRTLBM, what will be code of BROTHER in same language? (1) ARNTGDQ (2) CSNSIRE (3) QAPTEIS (4) ASNTGFQ
27. In certain code language if BLOCK is written as 43, what will be code of HOUSE in same language? (1) 68 (2) 61 (3) 67 (4) 63
28. In certain code language if BOUND is written as 112, what will be code of WHITE in same language? (1) 132 (2) 103 (3) 130 (4) 123
29. In certain code language if ELEPHANT is written as LEPEAHTN, what will be code of QUESTION in same language? (1) UQSEITNO (2) SEUQNOTI (3) UQUESTINO (4) EUQITSON
30. In certain code language if DRIVER is written as RDERVI, what will be code of WINDOW in same language? (1) WIWOND (2) WIDNOW (3) WWOIDN (4) WOWDIN

31. In certain code language if FROG is written as 2116, what will be code of NEST in same language?  
 (1) 3262 (2) 3364 (3) 3436 (4) 4363
32. In certain code language if COVER is written as EMXCT, what will be code of BIRTH in same language?  
 (1) DJTSJ (2) CHSSI (3) AGSQI (4) DGTRJ
33. In a certain code language if XDRL is written as 12296, what will be code of NHTV in same language?  
 (1) 72511 (2) 1481022 (3) 741011 (4) 7856
34. In certain code language if HOCKEY is written as YOKCEH, what will be code of PENCIL in same language?  
 (1) LECNIP (2) LICNEP (3) NCEILP (4) LICNPE
35. In certain code language if RUBBER is written as BERRUB, what will be code of BUTTER in same language?  
 (1) TTBUR (2) TERBUT (3) TUTREB (4) UBTTRE
36. In certain code language is SHARP is written as 58034, what will be code of RASH in same language?  
 (1) 3058 (2) 3045 (3) 3854 (4) 5384

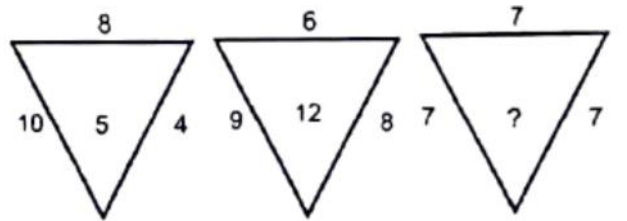
Direction- In question 37 to 48 the equations have become wrong because of the wrong order of signs. Choose the correct order in signs from the four options given below so as to make the equations correct. Write the alternative number of the correct option of the answer sheet against the corresponding question number-

37.  $2 + 40 - 92 = 8 \times 20$   
 (1)  $\times = + -$  (2)  $- + = \times$  (3)  $= \times + -$  (4)  $+ - \times =$
38.  $34 - 6 = 18 \div 66 + 3$   
 (1)  $= \div + -$  (2)  $\div + - =$  (3)  $+ - = \div$  (4)  $+ \div = -$
39.  $2 - 21 \times 7 = 17 \div 11$   
 (1)  $\times - = \div$  (2)  $\times = - \div$  (3)  $= - \times \div$  (4)  $\times \div = -$
40.  $7 \times 3 = 4 - 6 + 1$   
 (1)  $- + = \times$  (2)  $+ - = \times$  (3)  $- + \times =$  (4)  $+ - \times =$
41.  $63 = 7 \div 44 + 6 - 41$   
 (1)  $\div + = -$  (2)  $= + \div -$  (3)  $\div - = +$  (4)  $\div = + -$
42.  $69 \times 25 = 10 + 6 - 9$   
 (1)  $- + = \times$  (2)  $= + \times -$  (3)  $= \times + -$  (4)  $\times + - =$
43.  $41 = 32 + 10 = 9 + 54$   
 (1)  $+ = - +$  (2)  $+ - = +$  (3)  $= + + -$  (4)  $= + - +$
44.  $15 = 5 + 3 \div 17 \times 8$   
 (1)  $\times + = \div$  (2)  $+ \times \div =$  (3)  $\times \div = +$  (4)  $+ = \div \times$
45.  $38 + 2 - 46 = 33 \times 3$   
 (1)  $= \times + -$  (2)  $\times + = -$  (3)  $\times = + -$  (4)  $- + = \times$
46.  $15 = 7 \times 2 - 5 + 4$   
 (1)  $\times - + =$  (2)  $\times - + =$  (3)  $- + = \times$  (4)  $+ - = \times$
47.  $24 - 6 + 9 \div 2 = 7$   
 (1)  $\div = + -$  (2)  $+ = \div -$  (3)  $+ = - \div$  (4)  $+ - = \div$
48.  $5 = 8 - 29 + 4 \times 15$   
 (1)  $- - + \times$  (2)  $+ - = \times$  (3)  $\times = - +$  (4)  $+ \times = -$

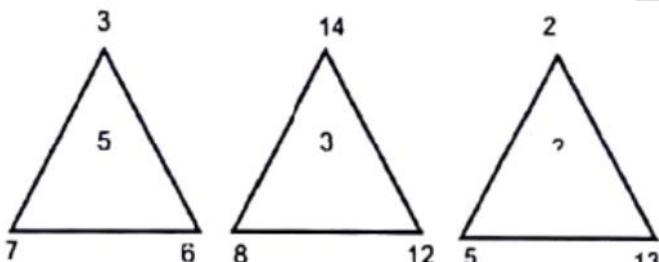
Direction- Question no 49 to 58 numbers are lace in figure on the basis of some rules. One place in vacant which is indicated as (?). Find out the correct alternative for the vacant place and write its number against the proper question number on your answer sheet-

49. 

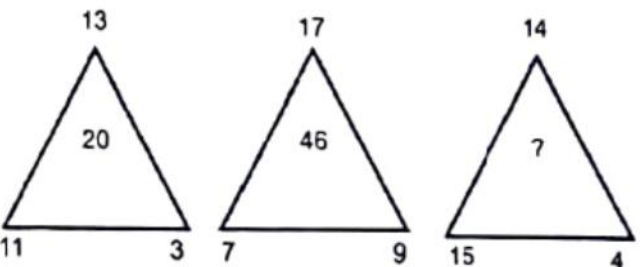
(1) 3                      (2) 6                      (3) 8                      (4) 10

50. 

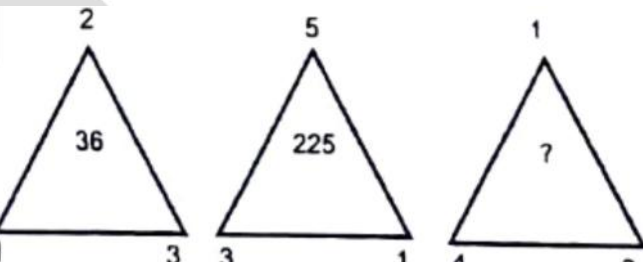
(1) 19                      (2) 13                      (3) 7                      (4) 4

51. 

(1) 4                      (2) 6                      (3) 8                      (4) 10

52. 

(1) 20                      (2) 57                      (3) 28                      (4) 46

53. 

(1) 49                      (2) 64                      (3) 89                      (4) 120

54. 

9	8	73
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6	4	26
---	---	----

7	3	?
---	---	---

  
 (1) 25                      (2) 52                      (3) 21                      (4) 12

55. 

45	5	3
----	---	---

36	9	2
----	---	---

50	2	?
----	---	---

  
 (1) 4                      (2) 7                      (3) 5                      (4) 8

56. 

5		
4	4	6
7		

3		
2	5	4
5		

4		
3	?	5
6		

  
 (1) 6                      (2) 7                      (3) 8                      (4) 9

57. 

8	7
26	
5	2

11	2
9	
3	12

17	6
?	
4	5

  
 (1) 18                      (2) 28                      (3) 38                      (4) 48

58. 

8	27
13	
3	2

132	12
14	
6	11

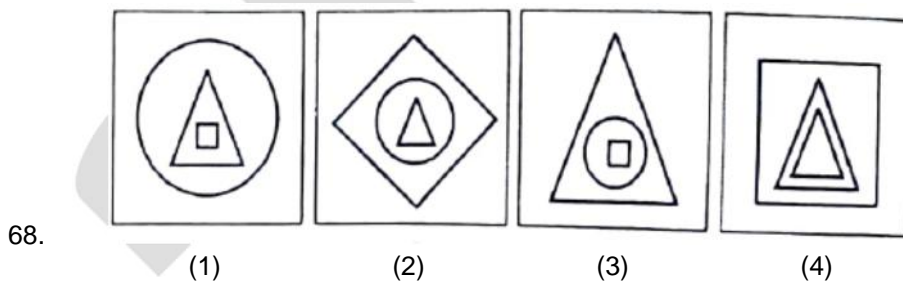
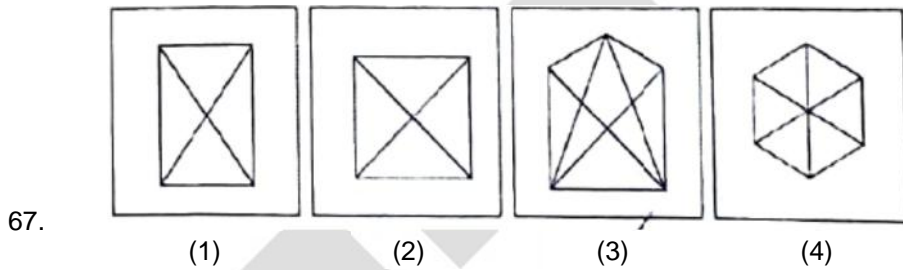
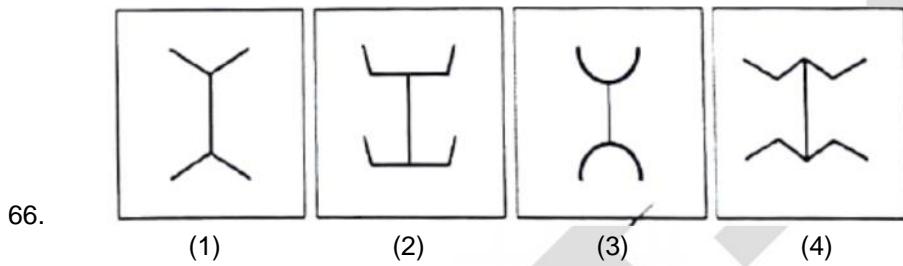
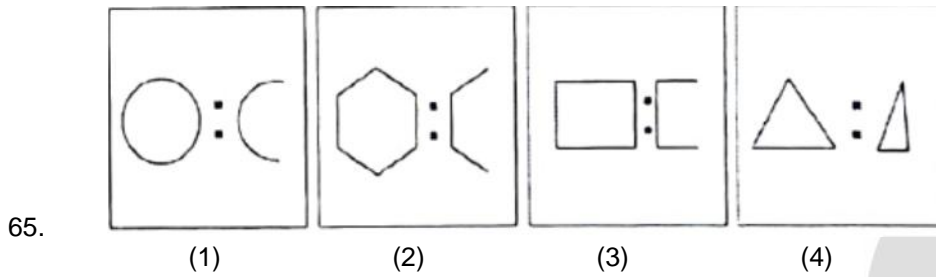
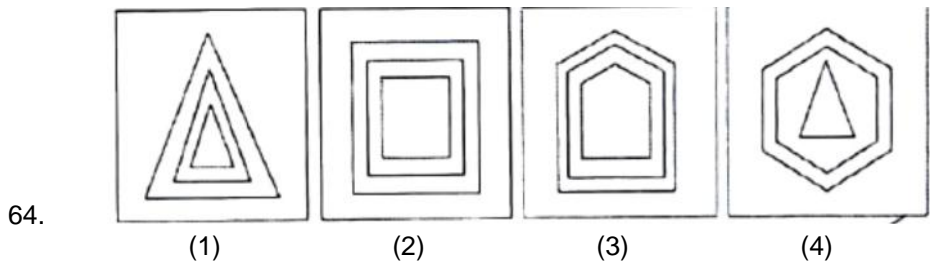
18	6
?	
1	9

  
 (1) 15                      (2) 12                      (3) 10                      (4) 8

Direction- Question no 59 to 63 are based on the following information. Read carefully the information and find out the correct alternative for each question-  
*Ramesh likes to study Hindi, English and Maths.*  
*Suresh likes to study Science, English and Hindi.*  
*Ahmad like to study English, Maths and Geography.*  
*Bobby likes to study Maths, Science and Hindi.*  
*Gopal likes to study only Hindi.*

59. Which subject is liked by most of the boys?  
 (1) Science                      (2) English                      (3) Hindi                      (4) Maths
60. How many boys like English?  
 (1) One                      (2) Two                      (3) Three                      (4) Five
61. How many boys like Science?  
 (1) One                      (2) Two                      (3) Three                      (4) Five
62. Which subject is liked by least of the boys?  
 (1) Geography                      (2) English                      (3) Science                      (4) Maths
63. How many boys like Maths?  
 (1) Four                      (2) Three                      (3) Two                      (4) One

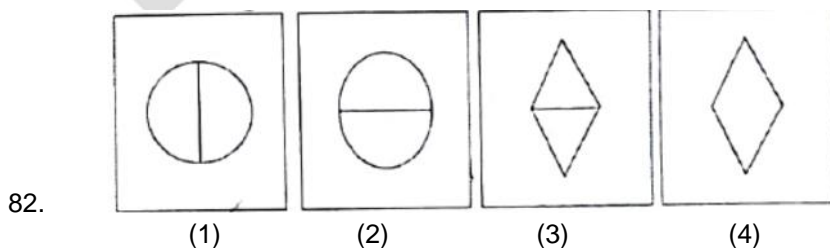
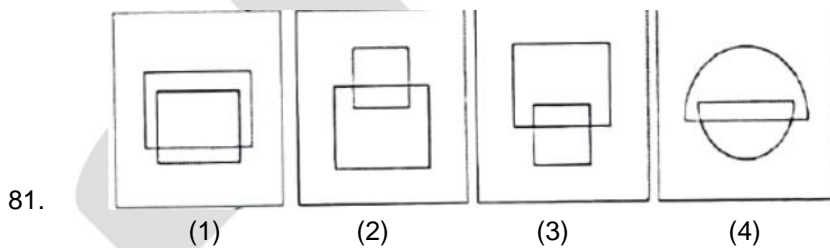
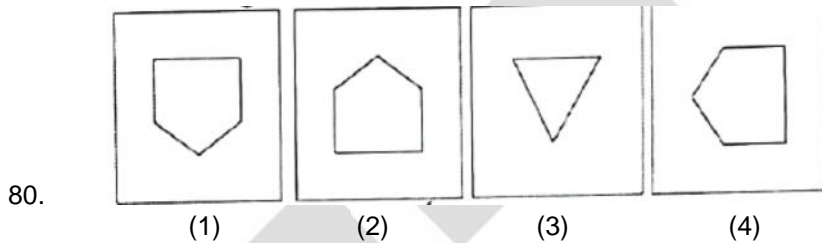
Direction- Question no 64 to 68 each question has four terms. Three terms (figure) are alike in some way. One term (figure) is different from three others. Find out the correct term which is different from three others and write its alternative number of your answer sheet against the proper question number-

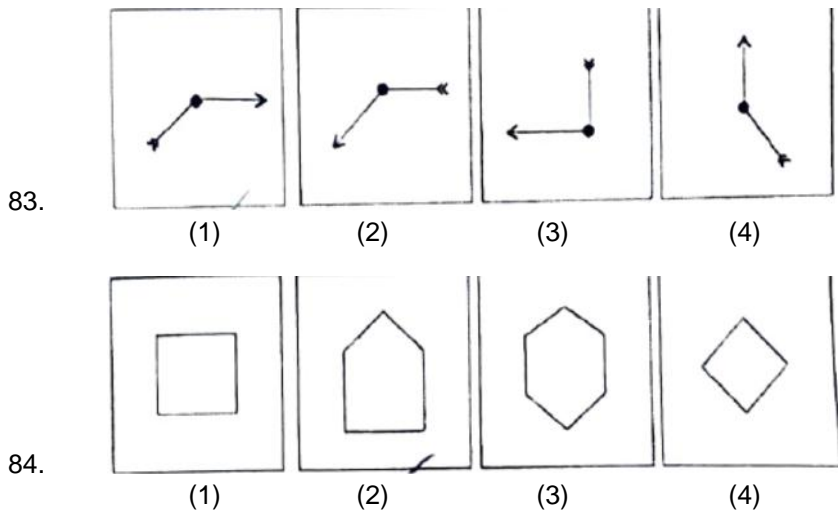


Direction- In question 69 84 there are four terms in each question. The relation that exist between the terms left to the symbol :: is the same between the terms right to the symbol ::. Out of the four terms one term is missing in each question. The missing term is one of the four alternatives given below each equation. Find out the correct alternative and write its number on your answer sheet against the proper question-

69. RSTY : YXWV :: GHIJ : ?  
 (1) NMLK                      (2) MLKJ                      (3) NLMK                      (4) MKJL

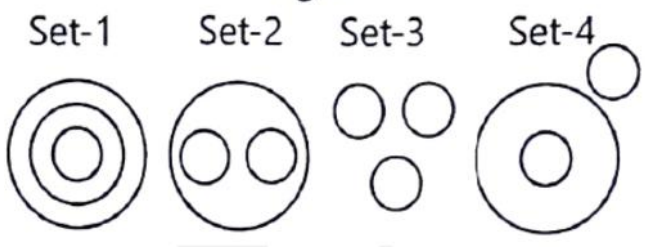
70.  $\frac{16}{3} : 4096 :: \frac{22}{2} : ?$   
 (1) 448 (2) 484 (3) 243 (4) 231
71. DGK : 462 :: NIF : ?  
 (1) 648 (2) 630 (3) 540 (4) 756
72. Cold : Hot :: Life : ?  
 (1) Age (2) Death (3) Pleasure (4) Health
73. Lock : Key :: Needle : ?  
 (1) Cloth (2) Iron (3) Tailor (4) Thread
74. Cricket : Run :: Hockey : ?  
 (1) Field (2) Goal (3) Ball (4) Player
75. MAN : REHTAF :: WOMAN : ?  
 (1) RAHTOM (2) RETHAM (3) REHTAM (4) REHTOM
76. Ice : Water :: Water : ?  
 (1) Steam (2) River (3) Rain (4) Sea
77.  $\frac{2}{6} : 36 :: \frac{3}{2} : ?$   
 (1) 9 (2) 8 (3) 6 (4) 5
78. Brick : Soil :: Bread : ?  
 (1) Fire (2) Cook (3) Wheat (4) Flour
79. 491 : 7 :: 534 : ?  
 (1) 6 (2) 9 (3) 5 (4) 8





Direction- For question 85 to 95 four sets of circles have been given below. Three circles of sets have some relation with each other. Questions given below have three words each of which are also related to each other in some way. This relation between words is similar to that in one of the sets of circles. Find it out from the four options given below each question and write its serial number against corresponding question number on your answer sheet-

**Figure**



- 85. Hospital Doctor Nurse  
(1) Set-4                      (2) Set-1                      (3) Set-2                      (4) Set-3
- 86. Advocate Female Male  
(1) Set-4                      (2) Set-1                      (3) Set-3                      (4) Set-2
- 87. City Market Shop  
(1) Set-1                      (2) Set-4                      (3) Set-3                      (4) Set-2
- 88. Minute Second Gram  
(1) Set-1                      (2) Set-2                      (3) Set-3                      (4) Set-4
- 89. Cricket hockey Football  
(1) Set-2                      (2) Set-3                      (3) Set-1                      (4) Set-4
- 90. Furniture Chair Table  
(1) Set-1                      (2) Set-4                      (3) Set-3                      (4) Set-2
- 91. Train Car Bicycle  
(1) Set-1                      (2) Set-4                      (3) Set-3                      (4) Set-2
- 92. Garden Plant Leave  
(1) Set-3                      (2) Set-1                      (3) Set-4                      (4) Set-2
- 93. Sky Stars Road  
(1) Set-4                      (2) Set-3                      (3) Set-2                      (4) Set-1



94. River Fish Cat  
(1) Set-3 (2) Set-4 (3) Set-1 (4) Set-2
95. Pond Water Frog  
(1) Set-3 (2) Set-2 (3) Set-1 (4) Set-4

Direction- Question no 96 to 100 are based on following statement. Read the statement carefully and find out correct alternative given for the question and write correct alternative number on your answer sheet against the corresponding question-

*Sam's age is one fourth of Ali's age. Sam is eleven years elder to Rahul but Deepak is five years younger to Rahul then-*

96. Who is eldest  
(1) Ali (2) Sam (3) Deepak (4) Rahul
97. Who is youngest  
(1) Ali (2) Sam (3) Deepak (4) Rahul
98. If Deepak's age is nine years, what is the age of Ali?  
(1) 85 yrs (2) 90 yrs (3) 97 yrs (4) 100 yrs
99. What is the difference between the age of Sam and Deepak?  
(1) 16 yrs (2) 9 yrs (3) 11 yrs (4) 5 yrs
100. If Deepak's age is eight years, how many years is Ali elder to Deepak?  
(1) 92 yrs (2) 88 yrs (3) 80 yrs (4) 78 yrs

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