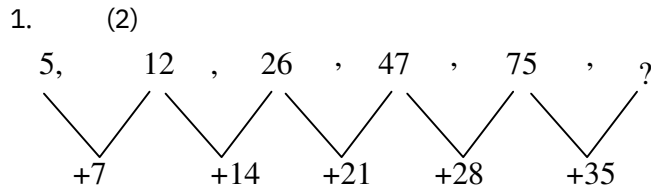
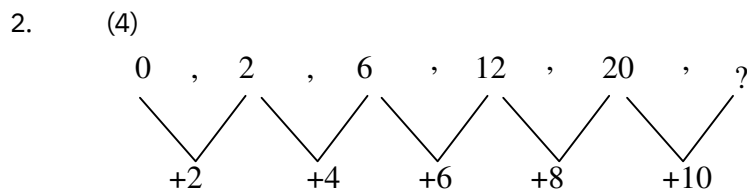


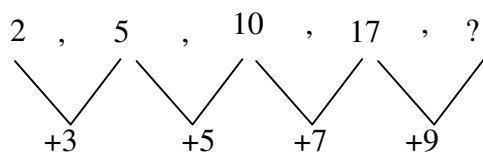
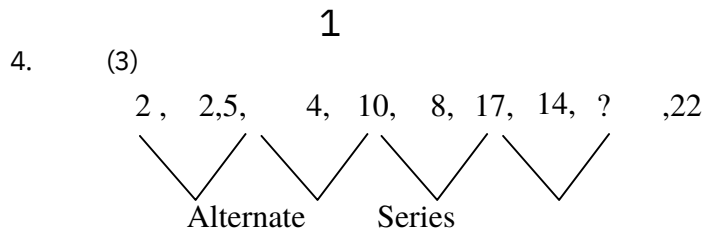
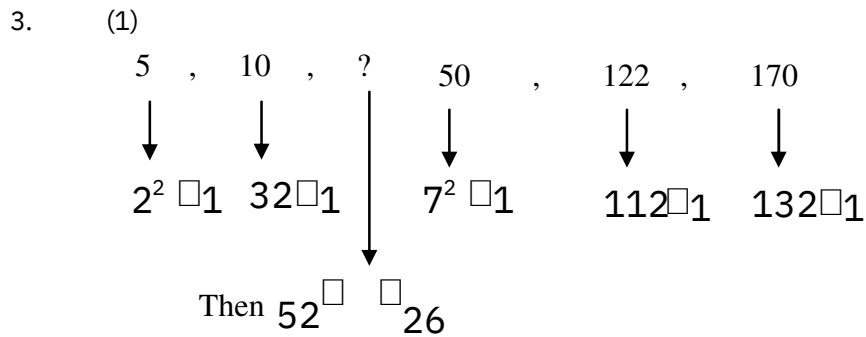
**NTSE STAGE-I-2020-2021  
TAMIL NADU  
PART-I MENTAL ABILITY TEST  
SOLUTIONS**



$\square 75 \square 35 \square 110$

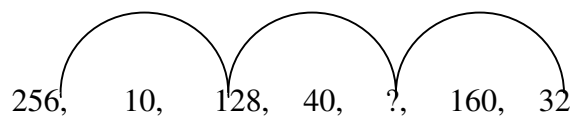


$\square 20 \square 10 \square 30$

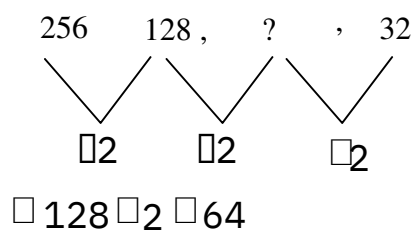


$\square 17 \square 9 \square 26$

5. (1)



Alternate series



6. (2/3)

-5A	0F	-3C	20Z	?	19y
1	6	3	26		25

Position of Alphabet - 6 = number

From options

(2) 1 G      (3) 2 H

7

8

7 □ 1 □ 6

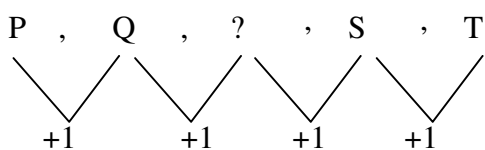
□ □ 6

□ Both (2) and (3) answers

7. (4)

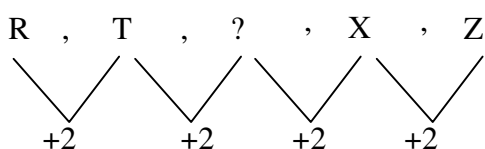
PRT, QTW, ?, SX, TZF

1st Letter:

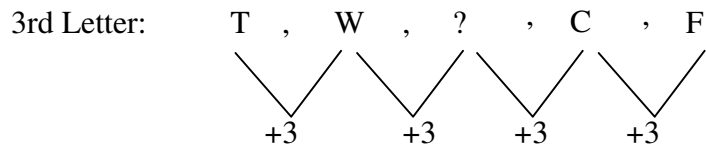


So, R

2nd Letter:

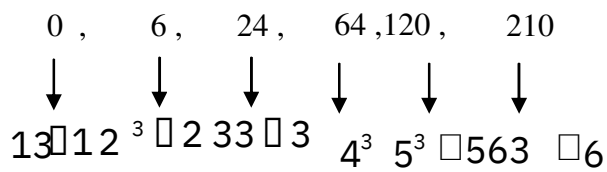


So, V



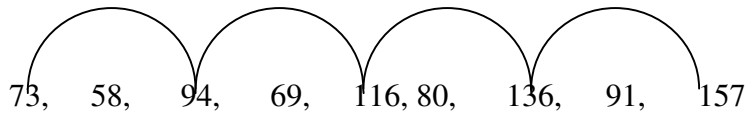
So, Z  
 Answer is RVZ

8. (2)

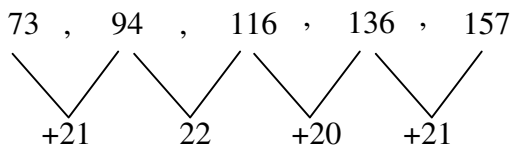
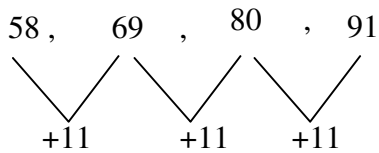


64 is wrong

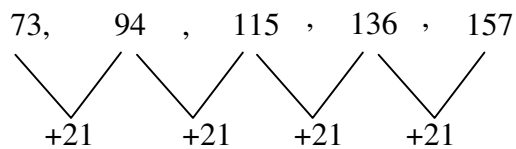
9. (3)



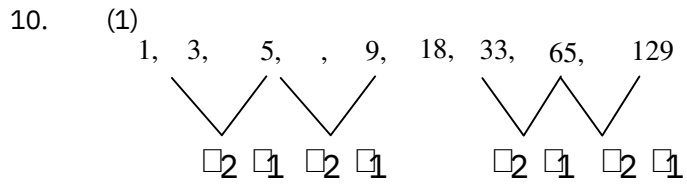
Alternate series:



Next,



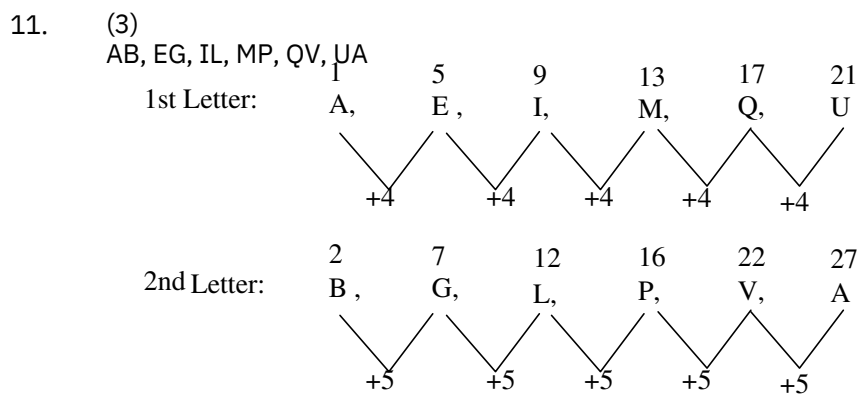
116 is wrong;



9□2□1□17

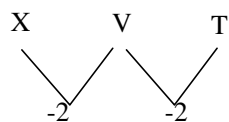
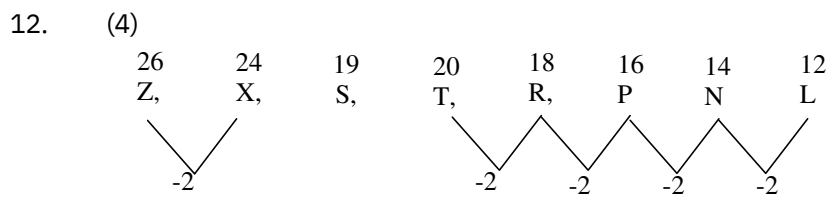
17□2□1□33

□18iswrong



□ Piswrong

□ MPiswrong



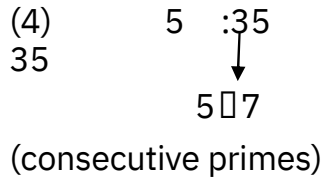
□ Sis wrong

13. (1)  
Ne wto n

14. (3)  
Peta l

15. (3)  
Steel: Factory

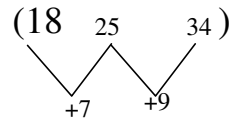
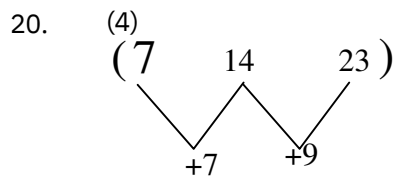
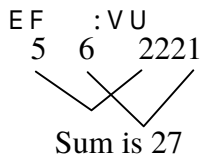
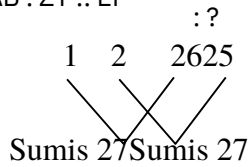
16. (4)  
 $7:77 :: ? : ?$   
 $7 \square 11 \square 77$   
 7, 11 are consecutive primes  
 Fromoptios



17. (1)  
 Pull

18. (2)  
 Jewellery

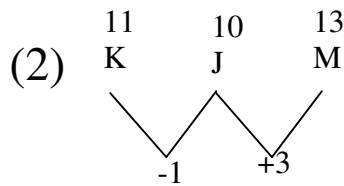
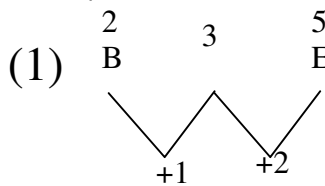
19. (4)  
 $AB : ZY :: EF : ?$

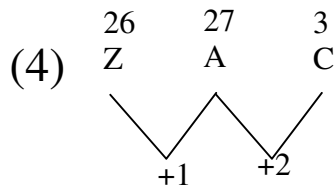
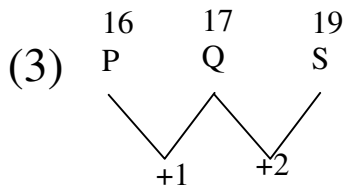


From options: (4) :

21. (4)  
 $a b \underline{b a} b a \underline{a b} | \underline{a b b} a \underline{b a a b}$  \_  
 Sin Answer is a b b a

22. (2)  
 From options:





So, KJM is different

23. (3)

6	18	21	9	20	
F	R	U	I	T	
□6	□6	□6	□6	□6	
Z	L	O	C	N	
26	12	15	3	14	
6	12	15	23	5	18
F	L	O	W	E	R
□□6	□6	□6	□6	□6	□6
26	6	9	17	25	12
Z	F	I	Q	Y	L

□ Answer is ZFIQYL

24. (1)

L	U	G	G	A1	G	E
12	21	7	7	□	7	5

(sum □ 2) □ (12 □ 21 □ 7 □ 7 □ □ 7 □ 5) □ 2

□ 60 □ 2 □ 120

□ Answer is 120

25. (4)

Red flowers – sik hee  
 Green – pee  
 Fragrant – mit

□ Fragrant are red flowers is

(4) sik hee pee mit.

26. (1)  
 A B C .....X Y Z  
 26 25 24 3 2 1  
 $a + b = 51$   $26 + 25 = 51$   $x + y = 5$   $3 + 2 = 5$   $p - q = ?$   $11 - 10 = 1$

(3)  
 Height

(4)  
 Cow, Milk, Curd, Butter

27. (4)  
 As a responsible citizen we should not take which is not ours.

(1)  
 28. Credent ia l

29.

30.

31. (4)  
 'U' is not there in the word

32. (1)

2	6	5	1	4	3
P	O	L	I	C	E

33. (3)  
 A, C, O, T, R  
 ACT O-R

34. (4)  
 ZPB, 3 such sequences

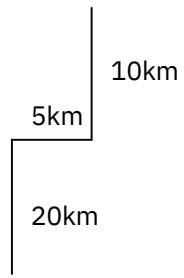
35. (2)  
 Z Y □ .....C B R



$$6 - L + 18 - R = 24 R$$

36. (1)  
 Potato is a Tuber, all others are root

(4)  
 37. Sout h

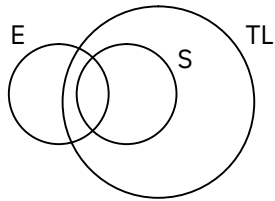


38. (2)  
 $15 + 1 = 16$

$$\frac{150000}{16} \square 9375$$

39. (1)  
 Wrong -  $x$   
 Correct -  $(120 - x)$   
 $(120 - x) - 3 - x = 80$   
 $360 - 3x - x = 80$   
 $4x = 280$   
 $x = 70$

40. (1)



- 1 ✓
- ✓
- 2 ✓

Both 1 and 2 correct

41. (3)  
 $8 \square 7 \square 8 \square 40 \square 2$   
 BODMAS Rule  
 $87 \square 5 \square 2$   
 $2$   
 $\square 7 \square 5$



42. <sup>(1)</sup>  
 $52 \square 4 \square 5 \square 8 \square 2 \square \quad 36$   
 $52 \square 20 \square 4 \square 36$   
 $36 \square 36$

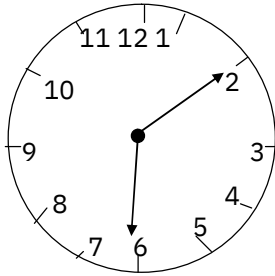
43. <sup>(2)</sup>  
 $7 \square 8 \square 2 \square 16 \square 2 \square \quad 15$   
 $7 \square 16 \square 8 \square 15$   
 $15 \square 15$   
<sup>(3)</sup>

44.  
 $5 \square 4 \square 20 \square 104$   
 $4 \square 5 \square 20 \square 104$   
 $4 \square 100 \square 104$   
 $104 \square 104$

45. <sup>(2)</sup>  
 $5 \square 7 \square 74$   
 $52 \square 72 \square 74$   
 $25 \square 49 \square 74$   
 $7 \square 8 \square$   
 $49 \square 64 \square 113$

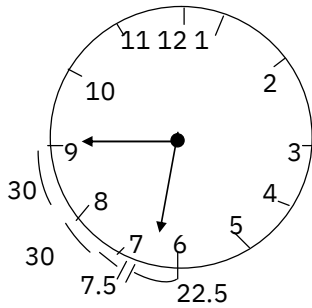
46. <sup>(4)</sup>  
 $17 + 22 = 12$   
 $(1 + 7) (2 + 2) = 12$   
 $8 + 4 = 12$   
 $26 + 19 = 18$   
 $(2 + 6) + (1 + 9) = 18$   
 $8 + 10 = 18$   
 $(10 + 20) + (12 + 2)$   
 $(1 + 0) + (2 + 0) + (1 + 2) + (2)$   
 $(1 + 2) + (3 + 2)$   
 $3 + 5 = 8$

47. (1)



6 : 10

48. (4)



Hour needle

60M - 30°

45M - 22.5°

30  30  7.5

67.5

(2)

49. The daughter of the daughter of (his Aunt's mother)

The daughter of the (daughter of Grand mother)

The daughter of the (Aunt / Mother)

Cousin / Sister

50. (3)

14, 24, 34, 41, 42, 43, 44, 45, 46, 47, 48, 49, 54, 64, 74, 84, 94

51. (3)

The no. of no's dt 200 which divi 10 but not 30

divisible 10  20

divisible 30  6

14

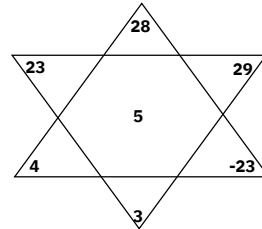
52. (1)  
 Total is  $44 - 5 = 39$   
 Total  $\square 40$

$\square 18$   
 $\underline{\underline{22}}$

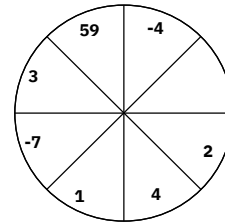
53. (4)  
 All the given options are true.

54. (1)  
 All the given options are true

55. (1)  
 $28 - 3 = 25$   
 $29 - 4 = 25$   
 $23 - (-2) = 25$   
 (1) 23



56. (2)  
 $23 \square 5 \square 3$   
 $43 \square 5 \square 59$   
 $13 \square 5 \square 4$   
 $\square 7 \square 35 \square \square 348$



57. (2)

$= 5 \square 2 + 10 \square 11 \quad \square 7 + 7 \square 9$   
 $= 10 + 110 + 63$   
 $= 183$

$= 12 \square 8 + 4 \square 7 + 6 \quad \square 5$   
 $= 96 + 28 + 30$   
 $= 154$

$= 9 \square 3 +$   
 $5 \square 7 + 11$   
 $\square 1$   
 $= 27 + 35$   
 $+ 11 = 73$

58. (1)

3C	27D	9E
7I	84K	12M
5A	?	13G

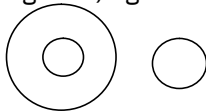
3C□9 E = 27 D (D is middle letter of CandE)

7I□12 M = 84K (K is middle letter of I and M)

5A□13G = 65 D (D is middle letter of A and G)

59. (2)

Engineer, Agriculture officer, professional



60. (3)

Polygon is diagram triangle is apolygon

61. (1)

Boys, girls is a part of women

(3)

62. Haryana, Punjab as common capital Chandigarh

(4)

63. Cats, Dogs are Pets

(64–68)

64. (1)

The region which represents high salaried managerial cadre in IT employers

65. (4)

One employed people represents the region 1

66. (2)

low salaried managerial cadre, non IT employees represents the region is 9.

(4)

67. The region 8 represents managerial cadre low salaried IT professionals.

(1)

68. The region 4, 5, 6 and 7 represents high salaries people

(69–72)

(b) (i) C A D

(ii) E G C

(iii) D B F

(4)

69. The person standing right end of row is F

70. (3)  
The person standing left end of row is E
71. (1)  
The person who is standing in the middle of row is A
72. (2)  
The person standing right of G is C

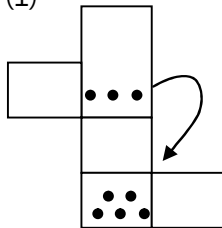
73- 75.

Person	P	Q	R	S
CAP	Blue	Green	White	Red

73. (1)  
R wears white cap
74. (4)  
P wears blue cap
75. (2)  
Q wears Green cap
76. (1)  
No of triangles = 17
77. (2)  
 $1 \square 1 = 13$   
 $2 \square 2 = 8$   
 $3 \square 3 = 5$   
 $5 \square 5 = 1$

$\square 27$

78. (3)  
 $1 + 3 + 6 = 10$
79. (1)



80. (3)  
 Son's present age = x  
 Father present age = 2x  
 $2x = 48$        $x = 24$   
 6 years ago  $\square 18$

81. (2)

. (3)

82

.

83 (1) (3) (1)  
 $(3-2) (3-2) (3-2) = 1$   
 . (4)

84

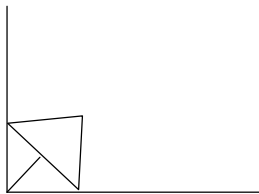
.

86.  
 85 only 1 shaded triangle

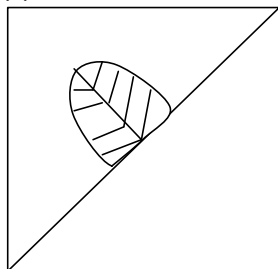
87. (4)  
 shaded region on same direction

88. (3)  
 number of gap between dot and arrow should be 4.

89. (1)



90. (2)



91. (3)  
 The arrow line (↻) is moving 90° clockwise.  
 The dot-line (⋮) is moving 90° anti-clockwise.

92. (2)  
 In fig(A) the shaded part is 1  
 fig (B) the shaded part is 2  
 so, its increasing.

93. (1)  
 From fig. (A) to fig (B), square is constant and circle is moving 180° clockwise.  
 from fig (B) to fig (C)  
 Now, circle is constant & square is moving 90° anti clockwise.  
 This process is repeating.

94 (2)

95 (1)  
 First letter is +4.  
 second letter is +3 and mirror image of that letter.

.

96 (4) (2) (1)  
square appears in fig (B)  
· similarly, circle should be there.

97 (3)

· (2)

~~99.~~

100.