

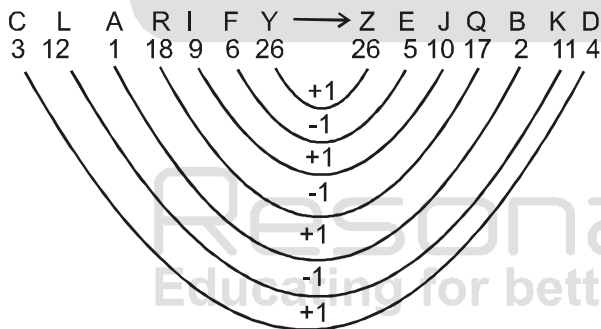
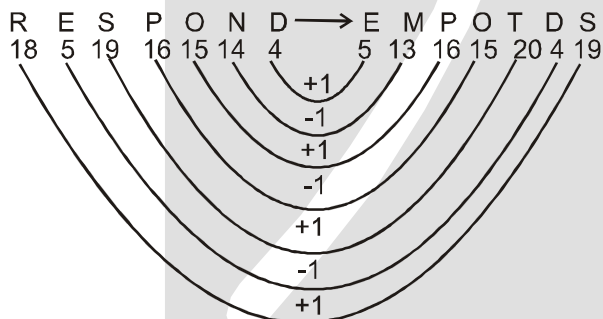
NATIONAL TALENT SEARCH EXAMINATION NTSE STAGE-II (2015) CLASS-X [MAT]

HINTS & SOLUTIONS

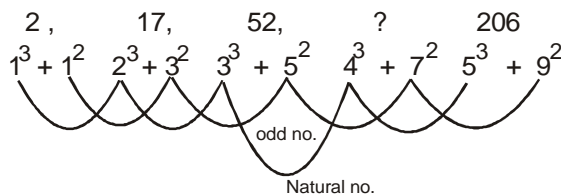
ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	3	2	4	3	2	2	4	4	1	3	4	3	3	3	1
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	1	3	3	1	2	3	*	1	2	4	2	2	4	3	2
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	2	2	2	3	3	2	4	2	3	4	4	3	3	2	3
Ques.	46	47	48	49	50										
Ans.	2	4	3	2	1										

1.



18.



19.

$\begin{array}{c} 11 \quad 9 \\ \diagdown \quad / \\ \quad \quad \quad \\ \\ 40 \end{array}$	$\begin{array}{c} 15 \quad 7 \\ \diagdown \quad / \\ \quad \quad \quad \\ \\ 176 \end{array}$	$\begin{array}{c} 25 \quad 21 \\ \diagdown \quad / \\ \quad \quad \quad \\ \\ ? \end{array}$
$\begin{aligned} 11^2 - 9^2 \\ 121 - 81 \\ = 40 \end{aligned}$	$\begin{aligned} 15^2 - 7^2 \\ 225 - 49 \\ = 176 \end{aligned}$	$\begin{aligned} 25^2 - 21^2 \\ 625 - 441 \\ = 184 \end{aligned}$

20.

$\begin{array}{c} 2 \times 3 \\ 3, 6, \\ 2^2 - 2 \end{array}$	$\begin{array}{c} 5 \times 6 \\ 24, 30, \\ 5^2 - 1 \end{array}$	$\begin{array}{c} 8 \times 9 \\ 63, 72, \\ 8^2 - 1 \end{array}$	$\begin{array}{c} 11 \times 12 \\ ?, ?, \\ 11^2 - 1 \end{array}$	$\begin{array}{c} 195, 210 \\ ?, \\ 14^2 - 1 \end{array}$
			$\begin{array}{c} \downarrow \\ 121 - 1 \\ 120, \end{array}$	$\begin{array}{c} \downarrow \\ 132 \end{array}$

24.

km/Lr.	2km/Lr.					
1 km.	1.5 km					
$\text{Avg. Speed} = \frac{2.5}{1 + \frac{1.5}{2}} = \frac{2.5 \times 2}{2 + 1.5} = \frac{5}{3.5} = \frac{2.5}{1.75} = \frac{2.5}{1.75}$						Ans. (2)

26.

A	B	C				
x	y	100 - x - y				
$500 = 2x \quad \frac{100 - x - y}{2} = 250$						
$x = 250 \quad 1000 - x - y = 500$						
$x + y = 500$						
$y = 250$						
$B = y = 250$						Ans. (2)

27.

$5e + 7s + 9p = 100 \times a$	$2e + 6s + 10p = 80 \times b$					
$5a - 25 = 7a \quad 65 = 9a - 105$						
$2a = 4b$						
$10e + 14s + 18p = 200$						
$\frac{a = 25}{2} = \frac{2e + 6s + 10p = 80}{8e + 8s + 8p = 120}$						
$e + s + p = \frac{120}{8} = 15$						

28.

$7 : x$						
$90 = \left(7 \times 30 + \frac{1}{2}x \right) - 6x$						
$90 = 210 + \frac{x}{2} - 6x$						

$$6x - \frac{x}{2} = 120$$

$$\frac{11x}{2} = 120$$

$$x = \frac{240}{11} = 21\frac{9}{11} = 21 \text{ min} + \frac{9}{11} \times 60$$

$$= 21 \text{ min} + \frac{540}{11} \text{ sec.}$$

$$= 21 \text{ min } 49 \text{ sec}$$

$$90 = 6x - \left(7 \times 30 + \frac{1}{2}x\right)$$

$$90 = 6x - 210 - \frac{x}{2}$$

$$300 = \frac{11x}{2}$$

$$x = \frac{600}{11} = 54\frac{6}{11} = 54 \text{ min} + \frac{6}{11} \times 60 \text{ sec}$$

$$= 54 \text{ min} + \frac{360}{11} \text{ sec.}$$

$$= 54 \text{ min } 32 \text{ sec.}$$

35. Man \times days = 1600 = $\frac{400}{40} + \frac{350}{35} + \frac{300}{30} + \frac{250}{25} + \frac{200}{20} + \frac{100}{15}$
 Man =
 100 = M \times D
 100 = 15 \times D

$$D = \frac{100}{15} = \frac{20}{3} = 6.66.$$

$$\text{Total day} = 10 + 10 + 10 + 10 + 10 + 6.66$$

$$= 56.66$$

45 to 47

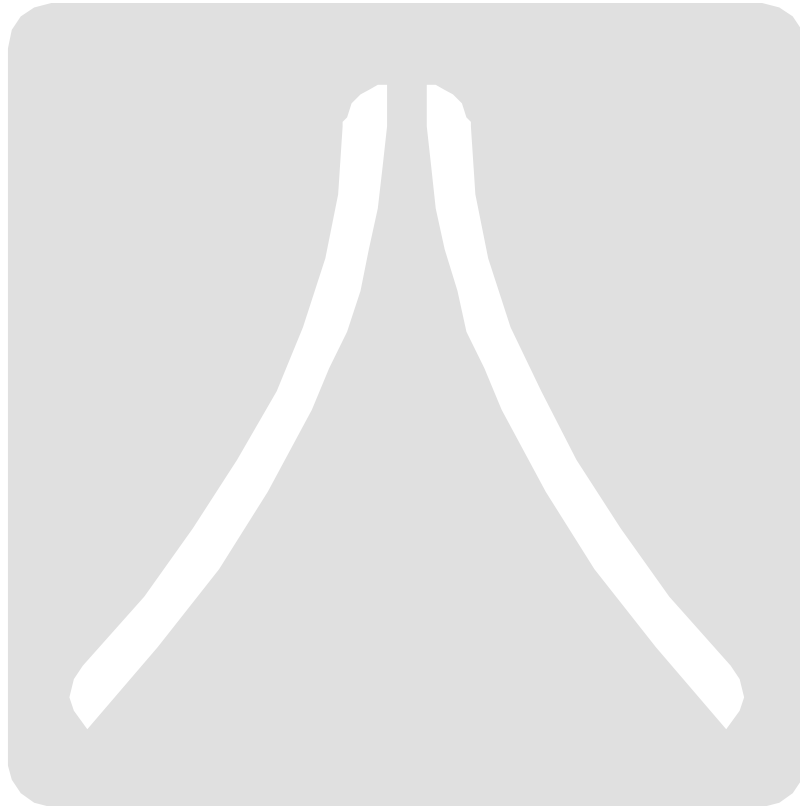
N = \$
 E = #
 T = @
 I = %
 S = &
 P = ?
 R = *
 U = +
 M = =

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45. MINT
 = % \$ @
 Ans. (3)

46. RINSE
 * % \$ & #
 Ans. (2)

47. INTEREST
 % \$ @ # * # & @



Resonance
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Admission Announcement
Special Batch for NTSE (Stage-I/II) Qualified Students
N-Batch
Give Spark to your Talent

SCHOLARSHIP CRITERIA	
NTSE II nd Stage Qualified	40%
NTSE I st Stage Qualified	25%
75% & above of Cut-Off	10%

ENROLL NOW



NATIONAL TALENT SEARCH EXAMINATION NTSE STAGE-II (2015)

LANGUAGE COMPREHENSIVE TEST (LCT)

CLASS-X [ENGLISH]

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	4	3	4	3	4	3	4	1	1	2	1	4	3	1
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	3	4	1	1	3	1	3	1	4	2	4	2	4	3	1
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	4	1	1	3	3	2	4	1	2	3	1	2	3	4	2
Ques.	46	47	48	49	50										
Ans.	3	1	3	2	2										

LANGUAGE COMPREHENSIVE TEST (LCT)

CLASS-X [HINDI]

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	4	3	4	3	4	1	4	1	2	2	1	4	3	4
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	3	4	1	1	2	1	3	1	4	2	4	2	3	3	2
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	4	1	1	3	3	2	2	1	2	3	1	2	3	4	2
Ques.	46	47	48	49	50										
Ans.	3	2	3	2	2										

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