

THE ASSOCIATION OF MATHEMATICS TEACHERS OF INDIA

Screening Test – Gauss Contest

NMTC at PRIMARY LEVEL – V & VI Standards

Saturday, 27th August, 2016

ANSWERS

1	<i>D</i>
2	<i>C</i>
3	<i>D</i>
4	<i>C</i>
5	<i>B</i>
6	<i>A</i>
7	<i>A</i>
8	<i>B</i>
9	<i>A</i>
10	<i>C</i>
11	-671
12	252
13	252
14	288
15	364
16	4000
17	10.25%
18	40
19	700
20	10

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Screening Test – Kaprekar Contest

NMTC at SUB JUNIOR LEVEL – VII & VIII Standards

Saturday, 27th August, 2016

ANSWERS

1	<i>C</i>
2	<i>A</i>
3	<i>A</i>
4	<i>C</i>
5	<i>D</i>
6	<i>A</i>
7	<i>B</i>
8	<i>D</i>
9	<i>A</i>
10	<i>C</i>
11	<i>D</i>
12	<i>C</i>
13	<i>A</i>
14	<i>C</i>
15	<i>C</i>
16	$4a - 5b$
17	23
18	11/18
19	$n + 4$
20	77
21	6
22	2
23	9
24	8
25	9
26	-8
27	10
28	9
29	990
30	210

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Screening Test – Bhaskara Contest

NMTC at JUNIOR LEVEL – IX & X Standards

Saturday, 27th August, 2016

ANSWERS

1	<i>C</i>
2	<i>A</i>
3	<i>D</i>
4	<i>A</i>
5	<i>A</i>
6	<i>C</i>
7	<i>C</i>
8	<i>A***</i>
9	<i>D</i>
10	<i>C</i>
11	<i>D</i>
12	<i>D</i>
13	<i>A</i>
14	<i>B</i>
15	<i>B</i>
16	3
17	1
18	2
19	24
20	25/16
21	5/4
22	3
23	2
24	1
25	10
26	0
27	3
28	20
29	4
30	1

*** There is ambiguity in this question; hence need not be evaluated

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Screening Test – Ramanujan Contest

NMTC at INTER LEVEL – XI & XII Standards

Saturday, 27th August, 2016

ANSWERS

1	<i>A</i>
2	<i>C</i>
3	<i>D</i>
4	<i>A</i>
5	<i>D</i>
6	<i>A</i>
7	<i>B</i>
8	<i>C</i>
9	<i>A</i>
10	<i>A</i>
11	<i>B</i>
12	<i>A</i>
13	<i>A</i>
14	<i>D</i>
15	<i>C</i>
16	3
17	-1
18	$28\sqrt{3}$
19	$1/c$
20	1
21	3
22	5
23	12
24	4
25	4
26	$22\frac{1}{2}^\circ$
27	3
28	2
29	Isosceles
30	1