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(ii) (iii)	one solution if q = c – no solution if q < c – a	a and a	
Number of sol (A) 0	utions of the equation > (B) 1	x-1 + x-2 + x-3 + x-3 (C) 2	4 = 7 is (D) infinite
Let ℓ be the null $2l + lx = 3$	umber of solutions obtain	ned in above question, then r	number of solutions of the e
(A) 0	(B) 1	(C) 2	(D) infinite
Let k be the nu (A) 0	umber of solution obtain (B) 1	ed in Q.No. 2, then number o (C) 2	f solution of x + 1 + x + (D) infinite
If the lines 2x (A) – 2	a + y − 3 = 0, 5x + ky − (B) 3	3 = 0 and 3x – y – 2 = 0 are (C) –3	concurrent, then 'k' is eq (D) 2
A light ray con line 5x – 12y	ning along the line 3x + = 10, then	4y = 5 gets reflected from th	ne line ax + by = 1 and goe
(A) $a = \frac{64}{115}$,	$b = \frac{112}{5}$	(B) a = $\frac{14}{15}$, b =	<u>-8</u> 115
(C) a = $\frac{64}{115}$,	$b = \frac{-8}{115}$	(D) a = $\frac{14}{15}$, b =	<u>112</u> 15
If the lines L_1	$2x - 3y - 6 = 0, L_2 : x$: + y – 4 = 0 and L ₃ : x + 2 =	0 taken pair wise in order

- |x a| + |x b| + |x c| + |x d| = p has (i) two solutions if p > c + d - a - b
 - (ii) infinite solutions if p = c + d - a - b
 - no solution if p < c + d a b(iii)
- 2. |x - a| + |x - b| + |x - c| = q has

Topics : Fundamentals of Mathematics, Straight Lines

Comprehension (no negative marking) Q.1 to Q.3 Single choice Objective (no negative marking) Q.4,5 Subjective Questions (no negative marking) Q.6

MATHEMATICS

DAILY PRACTICE PROBLEMS

COMPREHENSION (Q.No. 1 to 3)

If a < b < c < d, then

Type of Questions

1.

- two solutions if q > c a(i)
- 1.

2. equation

- 3. x – 1| = k is
- 4. ual to
- 5. s along the

6. constitute the angles A, B and C respectively of ∆ABC, then find the equation whose roots are tan A, tan B and tan C

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	М.М.,	Min.
(3 marks, 3 min.)	[9,	9]
(3 marks, 3 min.)	[6,	6]
(4 marks, 5 min.)	[4,	5]

DPP No. 49

Total Marks: 19

Max. Time: 20 min.

Answers Key

	1.	(C)	2. (B)	3. (A)	4. (A)
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5. (C)(D) **6.** $2x^3 - 15x^2 + 28x - 15 = 0$

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