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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

INTRODUCTION TO TRIGONOMETRY

SESSION -2024-25

CLASS - 10th

JOIN TODAY FOR ADVANCE CONCEPTS

ONLY IN ₹2000 PER MONTH

MRP: ₹ 100/- ONLY

ALSO, BASIC CONCEPTS CLASSES IN SUMMER

VACATION Apr, May & Jun (Every Year)

Add: Block -B, Near Glory Villa, 60 feet Road (Nearest land mark Scindia Statue), Shatabdipuram, Gwalior

Time : 1 hr ∴ Introduction to Trigonometry :- mm:

Q 1. match the columns :

(i) $\sin 30$	(a) $\cot\theta$
(ii) $\sqrt{\sec^2\theta - 1}$	(b) $\cos 60$
(iii) $\frac{\sqrt{1-\sin^2\theta}}{\sin\theta}$	(c) $\tan\theta$
(iv) $9\sec^2 A - 9\tan^2 A$	(d) 9
(v) $\tan 30$	(e) 1
(vi) $\sin^2 25 + \cos^2 25$	(f) $1/\sqrt{3}$

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Q 2. match the columns :-

(i) $1+\cot^2\theta$	(a) $\sqrt{3}$
(ii) $\sec\theta$	(b) 1
(iii) $\sin^2\theta + \cos^2\theta$	(c) $\operatorname{cosec}^2\theta$
(iv) $\tan 60$	(d) $\frac{1}{\cos\theta}$
(v) $\sec^2\theta - 1$	(e) $\tan^2\theta$

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Q.3 match the following :-

(i)	$\sqrt{\sec^2\theta - \tan^2\theta}$	(a)	0
(ii)	$\sin 0°$	(b)	$\frac{1}{\sqrt{2}}$
(iii)	$\tan\theta$	(c)	$\frac{\sin\theta}{\cos\theta}$
(iv)	$\cos 45°$	(d)	1

Q.4. match the following :-

(i)	$\cos\theta$	(a)	$\frac{1}{\sec\theta}$
(ii)	$\cos 0$	(b)	$\sin\theta$
(iii)	$\sqrt{1+\tan^2\theta}$	(c)	1
(iv)	$\sqrt{1-\cos^2\theta}$	(d)	$\sec\theta$

Q.5. Evaluate :

$\sin 60° \cdot \cos 30° + \sin 30° \cdot \cos 60°$

Q.6. Evaluate :

$2\tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$

Q.7. If $\tan A = \frac{4}{3}$, then find the value of $\sec A$ and $\cos A$

Q.8. If $\sin A = \frac{3}{4}$, Calculate $\cos A$ and $\tan A$

Q.9. In a triangle ABC, right angled at B, If $\tan A = 1$ then verify that :

$2 \sin A \cdot \cos A = 1$

Q.10. Prove that :

$$\frac{\cos A}{1+\sin A} + \frac{1+\sin A}{\cos A} = 2 \sec A$$

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