



PHYSICS CLASS 11 BATCH

Basic Maths & Calculus

DPP-04+

1. Find the value of $\cos 120^\circ$
(1) $\frac{1}{2}$ (2) $-\frac{1}{2}$
(3) $\frac{\sqrt{3}}{2}$ (4) 1
2. Find the value of $\sin 105^\circ$
(1) $\frac{\sqrt{6}+\sqrt{2}}{4}$ (2) $\frac{1+\sqrt{3}}{2\sqrt{2}}$
(3) I & II (4) None
3. Find the value of $\sin 150^\circ$
(1) $\frac{1}{2}$ (2) $\frac{\sqrt{3}}{2}$
(3) 1 (4) $\frac{1}{\sqrt{2}}$
4. Find the value of $\tan 135^\circ$
(1) 1
(2) -1
(3) ∞
(4) None
5. Find the approximate value of $\sin 1^\circ$
(1) $\frac{\pi}{180}$ (2) $\frac{\pi}{30}$
(3) $\frac{\pi}{60^\circ}$ (4) None
6. Find value of $\tan (3^\circ)$
(1) 3°
(2) $\sin (3^\circ)$
(3) $\frac{\pi}{60}$ rad
(4) All of the above
7. Find maximum value of 'y' where $y = 2 \sin \theta + \sqrt{5} \cos \theta$.
(1) 3 (2) $2 + \sqrt{5}$
(3) $2\sqrt{5}$ (4) $\sqrt{5}$
8. Correct value of $\cos (2^\circ)$
(1) 2° (2) $\frac{\pi}{50}$
(3) 1 (4) 0
9. 3, 6, 9, 12, 15,, 120 find the sum of series.
(1) 1960 (2) 1760
(3) 1560 (4) 2460
10. Find sum of infinite term
 $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$
(1) $\frac{1}{2}$ (2) 1
(3) 2 (4) $\frac{3}{2}$



ANSWER KEY

1. (2)
2. (3)
3. (1)
4. (2)
5. (1)

6. (4)
7. (1)
8. (3)
9. (4)
10. (3)