

Class : 12

Roll No.					
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**COBIS - HALF YEARLY EXAMINATION - 2024-25**

Time Allowed : 2 hours  
**MATHEMATICS**  
 PART - B (Answer all the questions)  
 Max. Marks : 40

1.  $\sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) = \frac{1}{2} \sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \cos^{-1} \left( \frac{1}{\sqrt{2}} \right)$   
 (A)  $\frac{\pi}{4}$  (B)  $\frac{\pi}{2}$  (C)  $\frac{3\pi}{4}$  (D)  $\frac{\pi}{3}$
2.  $\alpha$  and  $\beta$  are complementary angles. If  $\sin \alpha = \frac{1}{\sqrt{2}}$ , then  $\cos \beta =$   
 (A)  $\frac{1}{\sqrt{2}}$  (B)  $\frac{1}{2}$  (C)  $\frac{\sqrt{3}}{2}$  (D)  $\frac{1}{\sqrt{3}}$
3. A balloon rises straight up at 10 m/s. An observer 100 m away from the spot where the balloon left the ground. Find the rate of change of the balloon's angle of elevation  $\theta$  when you stand when the balloon is 20 metres above the ground.  
 (A)  $\frac{1}{10} \text{ rad/sec}$  (B)  $\frac{1}{20} \text{ rad/sec}$  (C)  $\frac{1}{100} \text{ rad/sec}$  (D)  $\frac{1}{200} \text{ rad/sec}$
4. The value of  $\sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \cos^{-1} \left( \frac{1}{\sqrt{2}} \right)$  is  
 (A)  $\frac{\pi}{4}$  (B)  $\frac{\pi}{2}$  (C)  $\frac{3\pi}{4}$  (D)  $\frac{\pi}{3}$
5.  $\sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) = \frac{1}{2} \sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \frac{1}{2} \cos^{-1} \left( \frac{1}{\sqrt{2}} \right)$   
 (A)  $\frac{\pi}{4}$  (B)  $\frac{\pi}{2}$  (C)  $\frac{3\pi}{4}$  (D)  $\frac{\pi}{3}$
6. Points are given by the coordinates  $(1, 2)$  and  $(3, 4)$  are said to be collinear if  $x_1 y_2 + x_2 y_3 + x_3 y_1 = y_1 x_2 + y_2 x_3 + y_3 x_1$ . One of the points of vertex of triangle is  $(1, 2)$ .  
 (A)  $(2, 3)$  (B)  $(3, 4)$  (C)  $(4, 5)$  (D)  $(5, 6)$
7. Given coordinates for  $P(x_1, y_1)$  and  $Q(x_2, y_2)$  are  
 (A)  $(1, 2)$  (B)  $(2, 3)$  (C)  $(3, 4)$  (D)  $(4, 5)$
8. If  $\sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) = \frac{\pi}{4}$ , then the value of  $\sin \left( \frac{\pi}{4} \right)$  is  
 (A)  $\frac{1}{\sqrt{2}}$  (B)  $\frac{1}{2}$  (C)  $\frac{\sqrt{3}}{2}$  (D)  $\frac{1}{\sqrt{3}}$
9. If  $\sin^{-1} \left( \frac{1}{\sqrt{2}} \right) + \cos^{-1} \left( \frac{1}{\sqrt{2}} \right) = \frac{\pi}{4}$ , then the value of  $\cos \left( \frac{\pi}{4} \right)$  is  
 (A)  $\frac{1}{\sqrt{2}}$  (B)  $\frac{1}{2}$  (C)  $\frac{\sqrt{3}}{2}$  (D)  $\frac{1}{\sqrt{3}}$
10. The distance between two foci of the ellipse  $\frac{x^2}{16} + \frac{y^2}{9} = 1$  is  
 (A) 10 (B) 14 (C) 18 (D) 22

# 12TH STD MATHS E/M

## HALF YEARLY EXAM

**DECEMBER-2024**

**16.12.2024**

**100% இதுதான் வரும்  
 இத மட்டும் நல்லா படிங்க**

# Maths Ii 12th Std Guide

**L Reisser**



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