

**KENDRIYA VIDYALAYA GACHI BOWLI, GPRA CAMPUS, HYD-32**  
**PRACTICE PAPER 02 (2023-24)**  
**CHAPTER 02 INVERSE TRIGONOMETRIC FUNCTIONS**  
**(ANSWERS)**

**SUBJECT: MATHEMATICS**

**MAX. MARKS : 40**

**CLASS : XII**

**DURATION : 1½ hrs**

**General Instructions:**

- (i). All questions are compulsory.
- (ii). This question paper contains 20 questions divided into five Sections A, B, C, D and E.
- (iii). Section A comprises of 10 MCQs of 1 mark each. Section B comprises of 4 questions of 2 marks each. Section C comprises of 3 questions of 3 marks each. Section D comprises of 1 question of 5 marks each and Section E comprises of 2 Case Study Based Questions of 4 marks each.
- (iv). There is no overall choice.
- (v). Use of Calculators is not permitted

**SECTION – A**

Questions 1 to 10 carry 1 mark each.

1. The value of  $\tan^{-1}(\sqrt{3}) + \cos^{-1}\left(-\frac{1}{2}\right)$  corresponding to principal branches is

(a)  $-\frac{\pi}{12}$

(b) 0

(c)  $\pi$

(d)  $\frac{\pi}{3}$

Ans: (c)  $\pi$

$$\tan^{-1}(\sqrt{3}) + \cos^{-1}\left(-\frac{1}{2}\right)$$

$$= \tan^{-1}\left(\tan \frac{\pi}{3}\right) + \cos^{-1}\left(-\cos \frac{\pi}{3}\right)$$

$$= \frac{\pi}{3} + \cos^{-1}\left[\cos\left(\pi - \frac{\pi}{3}\right)\right] = \frac{\pi}{3} + \cos^{-1}\left(\cos \frac{2\pi}{3}\right)$$

$$= \frac{\pi}{3} + \frac{2\pi}{3} = \frac{3\pi}{3} = \pi$$

2. The value of  $\sin^{-1}\left(\cos \frac{\pi}{9}\right)$  is

(a)  $\frac{\pi}{9}$

(b)  $\frac{5\pi}{9}$

(c)  $\frac{-5\pi}{9}$

(d)  $\frac{7\pi}{18}$

Ans: (d)  $\frac{7\pi}{18}$

$$\sin^{-1}\left(\cos \frac{\pi}{9}\right) = \sin^{-1}\left(\sin\left(\frac{\pi}{2} - \frac{\pi}{9}\right)\right)$$

$$= \sin^{-1}\left(\sin \frac{7\pi}{18}\right) = \frac{7\pi}{18}$$

3. The domain of the function defined by  $\sin^{-1}\sqrt{x-1}$  is

(a) [1, 2]

(b) [-1, 1]

(c) [0, 1]

(d) none of these

Ans: (a) [1, 2]

$$\because f(x) = \sin^{-1}\sqrt{x-1}$$

$$\Rightarrow 0 \leq x-1 \leq 1 \quad [\because \sqrt{x-1} \geq 0 \text{ and } -1 \leq \sqrt{x-1} \leq 1]$$

$$\Rightarrow 1 \leq x \leq 2$$

$$\therefore x \in [1, 2]$$

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