KENDRIYA VIDYALAYA GACHIBOWLI, GPRA CAMPUS, HYD-32 PRACTI CE PAPER 02 (2023-24)

CHAPTER 02 INVERSE TRI GONOMETRI C FUNCTI ONS (ANSWERS)

SUBJECT: MATHEMATICS CLASS: XII

MAX. MARKS: 40 DURATION: 11/2 hrs

General Instructions:

- All questions are compulsory.
- 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 $\tan^{-1}(\sqrt{3}) + \cos^{-1}(-\frac{1}{2})$ corresponding to principal branches is

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

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

Ans: (c) π

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

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

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

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

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

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

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

(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

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

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

$$\Rightarrow 0 \le x - 1 \le 1$$

$$\Rightarrow 0 \le x - 1 \le 1$$
 [: $\sqrt{x - 1} \ge 0$ and $-1 \le \sqrt{x - 1} \le 1$]

- $\Rightarrow 1 \le x \le 2$
- $x = x \in [1, 21]$

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