

PART-III: MATHEMATICS

SECTION - 1 (Maximum marks: 24)

- This section contains EIGHT (08) questions.
- The answer to each question is a NUMERICAL VALUE.
- For each question, enter the correct numerical value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, truncate/round-off the value to TWO decimal places.
- Answer to each question will be evaluated according to the following marking scheme:

Full Marks : +3 ONLY if the correct numerical value is entered;

Zero Marks : 0 In all other cases.

Considering only the principal values of the inverse trigonometric functions, the value of

$$\frac{3}{2}\cos^{-1}\sqrt{\frac{2}{2+\pi^2}} + \frac{1}{4}\sin^{-1}\frac{2\sqrt{2}\pi}{2+\pi^2} + \tan^{-1}\frac{\sqrt{2}}{\pi}$$

is _____

Answer (= 2.36)

Sol.
$$\frac{3}{2} \tan^{-1} \frac{\pi}{\sqrt{2}} + \frac{1}{4} \tan^{-1} \left(\frac{2\sqrt{2}\pi}{\pi^2 - 2} \right) + \tan^{-1} \frac{\sqrt{2}}{\pi}$$

$$= \frac{\pi}{2} + \frac{1}{2} tan^{-1} \frac{\pi}{\sqrt{2}} - \frac{1}{4} tan^{-1} \left(\frac{2\sqrt{2}\pi}{2 - \pi^2} \right)$$

$$= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \left(\frac{\pi}{\sqrt{2}} \right) - \frac{1}{4} \tan^{-1} \left(\frac{2 \cdot \left(\frac{\pi}{\sqrt{2}} \right)}{1 - \left(\frac{\pi}{\sqrt{2}} \right)^2} \right)$$

$$= \frac{\pi}{2} + \frac{1}{2} tan^{-1} \Biggl(\frac{\pi}{\sqrt{2}} \Biggr) - \frac{1}{4} \Biggl(-\pi + 2 tan^{-1} \Biggl(\frac{\pi}{\sqrt{2}} \Biggr) \Biggr)$$

$$=\frac{\pi}{2}+\frac{\pi}{4}=\frac{3\pi}{4}$$

$$-2.36$$

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Brendan G. Carr

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