# Comprehensive Test Series-04 

## CHAPTER-2(Inverse - Trigonometric Functions)

TIME: 15 min
MM: 10

## General Instructions:

$>$ All Questions are compulsory.
$>$ Marks are given alongwith the questions individually.
$>$ Use of calculator is not permitted.
Q. 1 Find the principal value of following:
(i) $\cot ^{-1}\left(\frac{-1}{\sqrt{3}}\right)$
(ii) $\cos ^{-1}\left(\frac{\sqrt{3}}{2}\right)$
(iii) $\tan ^{-1}(-\sqrt{3})$
(iv) $\operatorname{cosec}^{-1}(-\sqrt{2})$
(v) $\sec ^{-1}\left(\frac{2}{\sqrt{3}}\right)$
Q. 2 Find the value of following
(i) $\tan ^{-1}(1)+\cos ^{-1}\left(\frac{-1}{2}\right)+\sin ^{-1}\left(\frac{-1}{2}\right)$
(ii) $\tan ^{-1}(\sqrt{3})-\sec ^{-1}(-2)$

