

Comprehensive Test Series-05 Trigonometric Function

TIME: 1 hr.

MM: 20

General Instructions:

- All Questions are compulsory.
 - Marks are given alongwith the questions individually.
 - Use of calculator is not permitted.
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Q.1. Find the values of the other five trigonometric functions in each of the following problems:

(i) $\cot \theta = \frac{12}{5}$, θ in quadrant III

(ii) $\tan \theta = \frac{3}{4}$, θ in quadrant III

(iii) $\sin \theta = \frac{3}{5}$, θ in quadrant I

Q.2 Find the values of the following trigonometric ratios:

(i) $\sin 315^\circ$

(ii) $\cos 210^\circ$

(iii) $\sin (-1125^\circ)$

Q.3 Find the values of the following trigonometric ratios.

(i) $\operatorname{cosec} 390^\circ$

(ii) $\cot 570^\circ$

(iii) $\tan 480^\circ$

Q.4 Prove that: $\cos 510^\circ \cos 330^\circ + \sin 390^\circ \cos 120^\circ = -1$.