

Comprehensive Test Series-04 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 The minute hand of a watch is 1.5 cm long. How far does its tip move in 50 minutes?
(Use $\pi = 3.14$).
- Q.2 Find the radian measures corresponding to the following degree measures:
(i) $-37^{\circ}30'$

(ii) -300°
- Q.3 Find the degree measures corresponding to the following radian measures (Use $\pi = \frac{22}{7}$).
(i) -3
(ii) $\frac{1}{4}$
- Q.4 A wheel makes 180 revolutions in one minute. Through how many radians does it turn in one second?
- Q.5 The radius of circle is 5 cm. A chord of the circle is equal to the radius. Find the length of the minor arc of the chord
- Q.6 A horse is tied to a post by a rope. If the horse moves along a circular path always keeping the rope tight and describes 88 m when it has traced out 72° at the centre, find the length of the rope.