

## Nalanda College – Colombo 10

### Unit Test

### Mathematics – 2020

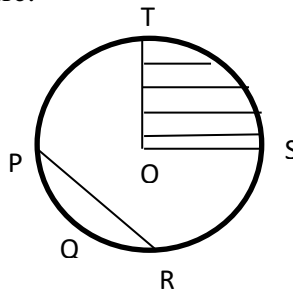
### Grade - 8

Time – 01 hours

## 23 - Circles

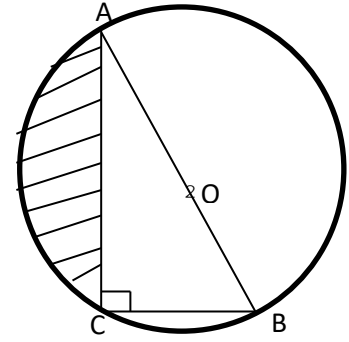
(1) (i) Name the following segments in the figure.

- (a) OT -  
 (b) PR -  
 (c) PQR -  
 (d) Shaded region -



(ii) Shade the minor segment of the circle.

- (2) (i) Draw a circle of radius 2.5 cm and name its centre O.  
 (ii) Draw a chord which is 4 cm in length and name it AB.  
 (iii) Mark C point on the major segment.  
 (iv) Measure & write down the magnitude of the  $\hat{A}OB$  ( Join OA and OB )  
 (v) Measure  $\hat{O}AB$  and  $\hat{O}BA$ , then write down the relationships between  $\hat{O}AB$  and  $\hat{O}BA$ .
- (3) (i) Draw a circle of radius 3 cm  
 (ii) Name its centre O.  
 (iii) Name the longest chord of a circle as AB  
 (iv) Measure and write the length of AB.  
 (v) Write a relationship between diameter and radius.
- (4) (i) Draw a circle of radius 4 cm with centre O.  
 (ii) Draw a sector AOB such that  $\hat{A}OB = 120^\circ$  and mark A, B on the circle.  
 (iii) Draw a chord AB  
 (iv) What kind of triangle is AOB ?



- (5) (i) What is the name given to AB.  
(ii) What is the name given to AC.  
(iii) If  $\hat{BAC} = 35^\circ$ , Find the magnitude of  $\hat{ABC} = ?$   
(iv) What is the name given to the shaded part of the circle ?



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