

# ***BISHOP SCOTT* BOYS' SCHOOL, PATNA**

(Affiliated to CBSE New Delhi) -Jaganpura, Chainpur, Patna-804453



SESSION 2019-2020

R.P.A

CLASS:9

MATHS

1. An equilateral triangle whose side 18 cm is inscribed in a circle. Find the radius of the circle.
2. Show that diagonals of a rectangle divide it into four triangles of equal area.
3. AB and CD are two equal chords of a circle with centre O such that  $\angle AOB = 100^\circ$ . Then,  $\angle COD = ?$
4. M and N are any two points lying on the sides DC and AD respectively of a parallelogram ABCD. Show that area ( $\triangle AMB$ ) = area ( $\triangle BNC$ ).
5. Prove that the sum of either pair of opposite angles of a cyclic quadrilateral is  $180^\circ$ .