INDIAN SCHOOL MUSCAT
MIDDLE SECTION
SECOND PERIODIC TEST 2018-19
MATHEMATICS – ANSWER KEY

CLASS : 07

SET B

Q.NO.1 **SECTION A - FILL IN THE BLANKS**

(a) **Two angles of a triangle are 60^0 and 25^0 ,the measure of third angle is 95^0**

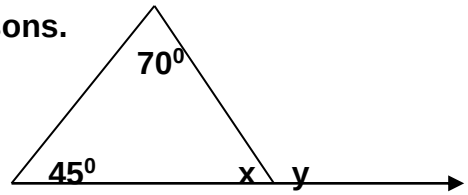
(b) **The longest side in the ∆PQR ,right angled at Q is PR**

(c) **The exterior angle of a triangle is 105^0 , the measure of its adjacent interior angle is 75^0**

Q.NO.2 **SECTION B–'2' MARK QUESTIONS**

(a) **Construct ∆PQR in which PQ = 6cm , QR = 3.5cm and PR =5cm.**
Ans. Each side (1/2) label (1/2)

(b) **Find the values of x, y . Give reasons.**



Ans. y = 115^0 (Exterior angle property)
X = 180^0 - 115^0 = 65^0 (Linear pair)

(c) **Is it possible to draw a triangle with sides 7.5cm , 3.5cm , 5.5cm. Give reason.**
Ans. 7.5 + 3.5 = 11cm > 5.5cm
3.5 + 5.5 = 9cm >7.5cm
7.5 + 5.5 = 13 > 3.5 cm
7.5cm , 3.5cm ,1.5cm can be the sides of a triangle.
Reason : Sum of any two sides of a triangle is greater than the third side.

(d) **Find the length of the side PQ in the right triangle PQR with sides QR=8cm, PR =10cm and /Q = 90^0 .**
$PQ^2 = PR^2 – QR^2$
= 100 – 64
= 36
AB = 6cm

Q.NO **SECTION - C ('3' MARK EACH – TOTAL (10 MARKS))**

3 **Construct ∆ABC in which BC=5cm , AB= 8cm and /C =90^0**

4 **A 20m long ladder reached a window 16m high from the ground on placing it against a wall at a certain distance. Find the distance of the foot of the ladder from the wall.**

hyp = 20m

Height = 16 m

Base =?

$base^2$ = Hyp^2 - $height^2$

= 400– 256

= 144

Distance = 12cm

5 **Draw a line AB and consider a point P not on it. Through P , draw a line XY parallel to line AB.**