

പൊതുവിദ്യാഭ്യാസ വകുപ്പ്  
ഡയറ്റ് എറണാകുളം  
വൈഭവം 2021  
SSLC അക്കാദമിക പരീക്ഷ

**T13**

**MATHEMATICS -TEST 2**

ANSWER / SCORING KEY

Qn No	Answer key	Marks	
1	$\angle B = 60^\circ$	1	1
2	$\angle B$	1	1
3 a)	$PA = 10 - 4 = 6 \text{ cm}$	1	2
b)	$PA \times PB = PC \times PD$ , $6 \times 4 = PC \times 3$ , $PC = 8 \text{ cm}$	1	
4 a)	$\angle OAP = 90^\circ$	1	2
b)	$PA^2 = OP^2 - OA^2$ $PA = 8 \text{ cm}$	1	
5	$\angle ADB = 90^\circ$	1	3
	$\angle ACB = 110^\circ$	1	
	$\angle AEB = 270 - (110 + 90) = 270 - 200 = 70^\circ$	1	
6	To draw the circle	1	3
	Draw tangents	1	
	Measure length	1	
7	Draw circle	1	4
	Construct triangle	3	
8	Draw rectangle	1	4
	Construct square of equal area	3	
9	Draw rectangle	1	5
	Construct rectangle of equal area	4	
10 a)	$CP = 6 \text{ cm}$ , $AC = 10 \text{ cm}$	1	5
b)	$AP^2 = AC^2 - CP^2$ , $AP^2 = 10^2 - 6^2$ $AP = 8 \text{ cm}$	1	
c)	$AB = AC = 10 \text{ cm}$ , $AR = 4 \text{ cm}$ , $BR = BP = 6 \text{ cm}$ Perimeter = $10 + 10 + 12 = 32 \text{ cm}$ Area = $\frac{1}{2} \times BC \times AP = \frac{1}{2} \times 12 \times 8 = 48 \text{ sq .cm}$	2	
d)	Radius = $A/S$ $= 48 / 16 = 3 \text{ cm}$	1	