



# INTSO EDUCATION

MATHEMATICS TALENT SEARCH OLYMPIAD(MTSO) 2019 - 2020

CLASS : X

STAGE - 2

TIME : 60 min.

Max. Marks : 80

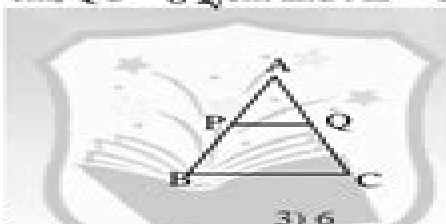
## Instructions:

- Ⓐ Fill the OMR sheet completely and carefully.
- Ⓑ Each question carries **Two marks** and has only one correct answer. Each wrong answer will be given **-1 negative mark**.
- Ⓒ The question paper contains 40 questions to be answered in 60 minutes.

1. AB and AC are the two tangents to a circle whose radius is 6 cm. If  $\angle BAC = 60^\circ$ , then the value (in cm) of  $\sqrt{(AB)^2 + (AC)^2}$  is [      ]

- 1)  $6\sqrt{6}$                       2)  $4\sqrt{6}$                       3)  $9\sqrt{3}$                       4)  $8\sqrt{3}$

2. In the given figure,  $AQ = 4\sqrt{2}$  cm,  $QC = 6\sqrt{2}$  cm and  $AB = 20$  cm. If PQ is parallel to BC, then the value of (in cm) of PB is [      ]



- 1) 8                              2) 12                              3) 6                              4) 15

3. The sum of radii of the two circles is 91 cm and the difference between their area is  $2002 \text{ cm}^2$ . The radius (in cm) of the larger circle is [      ]

- 1) 56                              2) 42                              3) 63                              4) 49

4. In the given figure ABCD is a square whose side is 4 cm. P is a point on the side AD. The minimum value (in cm) of  $BP + CP$  is [      ]

- 1)  $4\sqrt{3}$   
2)  $4\sqrt{2}$   
3)  $6\sqrt{3}$   
4)  $4\sqrt{6}$



5. The ratio between the area of a square and that of a circle, when the length of a side of the square is equal to that of the diameter of the circle, is (take  $\pi = 22/7$ ) [      ]

- 1) 14 : 11                      2) 238 : 11                      3) 7 : 22                      4) 22 : 7

6. Three of the six vertices of a regular hexagon are chosen at random, the probability that the triangle formed by these vertices is equilateral is [      ]

- 1)  $\frac{1}{2}$                               2)  $\frac{1}{3}$                               3)  $\frac{1}{10}$                               4)  $\frac{1}{20}$

# Mtso Junior Level Exam 2014 2015 Key Answers

**D Siedentop**



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