



INTSO EDUCATION

MATHEMATICS TALENT SEARCH OLYMPIAD(MTSO) 2019 - 2020

CLASS : X

STAGE - 2

TIME : 60 min.

Max. Marks : 80

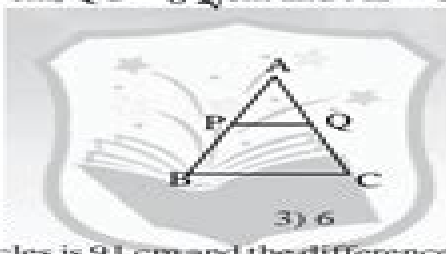
Instructions:

- Ⓐ 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 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 Exam 2014 Key

R Barnett



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