

BOARD QUESTION PAPER: MARCH 2020

Mathematics Part - II

Time: 2 Hours

Max. Marks: 40

Notes:

- All questions are compulsory.
- Use of calculator is not allowed.
- The numbers to the right of the questions indicate full marks.
- In case of MCQ's [Q. No. 1(A)] only the first attempt will be evaluated and will be given credit.
- For every MCQ, the correct alternative (A), (B), (C) or (D) in front of sub-question number is to be written as an answer.
- Draw proper figures for answers wherever necessary.
- The marks of construction should be clear and distinct. Do not erase them.
- Diagram is essential for writing the proof of the theorem.

Q.1. A. Four alternative answers are given for every sub-question. Select the *correct* alternative and write the alphabet of that answer: [4]

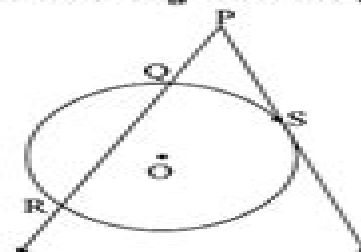
- Out of the following which is the Pythagorean triplet?
(A) (1, 5, 10) (B) (3, 4, 5) (C) (2, 2, 2) (D) (5, 5, 2)
- Two circles of radii 5.5 cm and 3.3 cm respectively touch each other externally. What is the distance between their centres?
(A) 4.4 cm (B) 2.2 cm (C) 8.8 cm (D) 8.9 cm
- Distance of point $(-3, 4)$ from the origin is _____.
(A) 7 (B) 1 (C) -5 (D) 5
- Find the volume of a cube of side 3 cm:
(A) 27 cm^3 (B) 9 cm^3 (C) 81 cm^3 (D) 3 cm^3

B. Solve the following questions: [4]

- The ratio of corresponding sides of similar triangles is 3 : 5, then find the ratio of their areas.
- Find the diagonal of a square whose side is 10 cm.
- $\square ABCD$ is cyclic. If $\angle B = 110^\circ$, then find measure of $\angle D$.
- Find the slope of the line passing through the points $A(2, 3)$ and $B(4, 7)$.

Q.2. A. Complete and write the following activities (Any two): [4]

i.



In the figure given above, 'O' is the centre of the circle, seg PS is a tangent segment and S is the point of contact. Line PR is a secant.
If $PQ = 3.6$, $QR = 6.4$, find PS.

Solution:

$$PS^2 = PQ \times \square$$

...(tangent secant segments theorem)

$$= PQ \times (PQ + \square)$$

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