

O. P. JINDAL SCHOOL, SAVITRI NAGAR**Periodic Test - II (2023 – 2024)****Class / Section: VII /****MM: 20****Subject: Maths****Time: 1 Hrs.**

Name: _____

Roll No. _____

General Instructions: All questions are compulsory.

1. Question 1 to 8 carry 1 mark each.
2. Question 9 to 11 carry 2 marks each.
3. Question 12 and 13 carry 3 marks each.

SECTION-A**Multiple choice questions:**

Que.(1) The hypotenuse of right triangle of sides 6 cm and 8 cm is ____.

- a) 7 cm b) 10 cm c) 14 cm d) 5 cm

Que.(2) Which of the following is not a congruence criterion of triangles

- a) SSS b) SAS c) SSA d) RHS

Que.(3) If two angles of a triangle are 110° and 35° , then it is a

- a) scalene triangle b) isosceles triangle c) equilateral triangle d) right triangle

Que.(4) For two given triangles how many matchings are possible?

- a) 2 b) 3 c) 4 d) 6

ORIn triangle ABC and PQR, $AB = PQ$ and $\angle A = \angle P$. The two triangles will be congruent by SAS congruence rule if

- a) $BC = QR$ b) $AC = PR$ c) $AC = QR$ d) $BC = PR$

Que.(5) The points at which the three medians of a triangle intersect is known as the ____ of the triangle.

- a) orthocentre b) centroid c) equidistant d) mid point

Que.(6) If $AB = PQ$, $AC = PR$ and $\angle A = \angle P = 40^\circ$, then by ____ congruence rule $\triangle ABC \cong \triangle PQR$.

- a) ASA b) SSS c) RHS d) SAS

Que.(7) A triangle can have two

- a) Right angles b) acute angles c) obtuse angles d) straight angles

ORIf one angle of a triangle is 90° , then it is a

- a) scalene triangle b) equilateral triangle c) right triangle d) isosceles triangle

Que.(8) It is given that $\triangle ABC \cong \triangle RPQ$, $AB = 4$ cm, $\angle B = 40^\circ$ and $\angle A = 80^\circ$. Then which of the following is true?

- a) $QR = 4$ cm, $\angle R = 60^\circ$ b) $RQ = 4$ cm, $\angle P = 60^\circ$ c) $QP = 4$ cm, $\angle P = 60^\circ$ d) $QP = 4$ cm, $\angle Q = 40^\circ$

SECTION – B

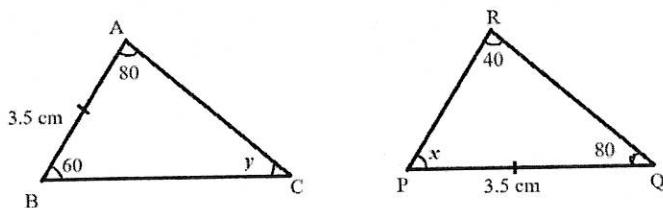
Que.(9) Find the perimeter of a rectangle whose width is 15 cm and diagonal is 17 cm.

OR

A 13 m long ladder reached a window 12 m high from the ground on placing it against a wall at a distance. Find the distance of the foot of the ladder from the wall.

Que.(10) One of the exterior angles of a triangle is 100° and the interior opposite angles are in the ratio 2:3. Find all the angles of the triangle.

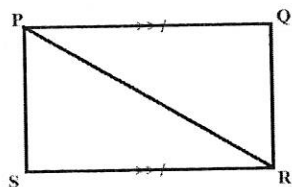
Que.(11) Find the measurements of the unknowns x and y in the given pair of congruent triangles.



SECTION – C

Que.(12)) In the given figure, $PQ \parallel RS$ and $PQ = SR$.

- i) Prove that $\Delta PRS \cong \Delta RPQ$.
- ii) Which angle is equal to $\angle RPS$?
- iii) Is $PS \parallel QR$?



OR

ΔABC is an isosceles triangle with $AB = AC$ and AP is one of its altitudes.

- i) Is $\Delta APB \cong \Delta APC$?
- ii) Is $\angle Q = \angle R$?
- iii) Is $BP = CP$?

Give reasons for your answer.

Que.(13) In the given figure, $l \parallel m$. Find the value of x , y and z .

