INDIAN SCHOOL SOHAR
PERIODIC ASSESSMENT - II (2019-2020)
MATHEMATICS

CLASS: VII
MAX. MARKS: 15
DATE: 12/01/2020

## General Instructions:

(i) All questions are compulsory.
(ii) There is no overall choice. However, internal choice has been provided. You have to attempt only one of the alternatives in all such questions.
(iii) Do the calculations in the working column. Give necessary formulae and steps wherever required. Use of calculators is not permitted.

## SECTION A

1. The lengths of two sides of a triangle are 13 cm and 17 cm . Between what two measures should the length of the third side fall?

## OR

If each of the angles opposite to the equal sides of an isosceles triangle is $50^{\circ}$, find the measure of the third angle.

## SECTION B

2. In the given figure prove that $\triangle \mathrm{BAC} \cong \triangle \mathrm{CDB}$ by giving reasons.

## OR

(2 marks)
 In the given figure prove that $\triangle \mathrm{ACB} \cong \triangle \mathrm{ECD}$ by giving reasons.

3. Find the length of the third side of a right-angled triangle if one of its side measures 15 cm and hypotenuse is 17 cm long.
[P. T. O]
4. List three rational numbers between $\left(\frac{-2}{3}\right)$ and $\frac{1}{2}$.

## OR

Solve $\left(\frac{2}{5} \times 6\right) \div\left(\frac{1}{2} \times \frac{3}{4}\right)$.
5. Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm long.

## SECTION D

6. Tom borrowed $₹ 30,000$ at the rate of $15 \%$ p.a for 3 years. Find the amount to be paid by Tom at the end of three years.

## OR

(a) The number of illiterate persons in a country decreased from 80 lakhs to 50 lakhs in 10 years. What is the percentage of decrease?
(b) Out of a total deposit of ₹1500 in her bank account, Jamie withdrew $40 \%$. Calculate the balance amount in Jamie's account.

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## SECTION A

1. If each of the angles opposite to the equal sides of an isosceles triangle is $45^{\circ}$, find the measure of the third angle.

## OR

The lengths of two sides of a triangle are 12 cm and 19 cm . Between what two measures should the length of the third side fall?

## SECTION B

2. Find the length of the third side of a right-angled triangle if one of its side measures 24 cm and hypotenuse is 26 cm long.
3. In the given figure prove that $\triangle \mathrm{ACB} \cong \triangle \mathrm{ECD}$ by giving reasons.

OR
In the given figure prove that $\triangle \mathrm{BAC} \cong \Delta \mathrm{CDB}$ by giving reasons.

[P. T. O]

## SECTION C

4. Find the perimeter of the rectangle whose length is 60 cm and a diagonal is 61 cm long.
5. List three rational numbers between $\left(\frac{-1}{2}\right)$ and $\frac{2}{3}$.

OR
Solve $\left(\frac{1}{2} \times \frac{3}{4}\right) \div\left(\frac{2}{5} \times 6\right)$.

## SECTION D

6. Tim borrowed ₹ 25,000 at the rate of $15 \%$ p.a for 3 years. Find the amount to be paid by Tim at the end of three years.

## OR

(a) Out of a total deposit of ₹2500 in her bank account, Jamie withdrew $60 \%$. Calculate the balance amount in Jamie's account.
(b) The number of illiterate persons in a country decreased from 75 lakhs to 45 lakhs in 10 years. What is the percentage of decrease?

