

08.01.2020

EVERWIN VIDHYASHRAM

Marks: 20

STD: VII

TT - MATHS

Time: 30 min

I. Fill in the blanks:

1. Congruent 2. $F1 \cong F2$ 3. SSS 4. Corresponding angles

5. $\angle C$

II. Answer the following:

6. Student Answer 7. Two sides one equal, are angle is equal.

8. RHS, as in the given two right -angled triangles, one side and the hypotenuse are equal.

$EB = DB$ (Given) $AE = BC$ (Given) $\angle A = \angle C = 90^\circ$ (Given) by

RHS Criteron.

9. Yes, they are congruent; $\triangle ABC \cong \triangle EDF$ (Eg. SSS rule)

$AB = DE = 3\text{cm}$ $AC = EF = 4.5\text{cm}$ $BC = DF = 3.5\text{cm}$

10. In $\triangle PSQ$ and $\triangle PSR$

$\overline{PQ} = \overline{PR} = 6.5\text{cm}$ (Given) $\overline{PS} = \overline{PS}$ (Common)

$\angle PSQ = \angle PSR = 90^\circ$ (Given) $\triangle PSQ \cong \triangle PSR$ (By RHS rule)