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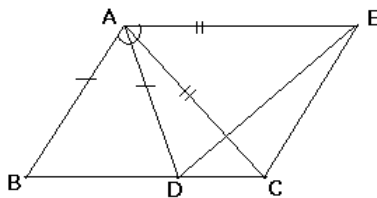
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**Section A MCQ – 1 Mark Each**

- Q.1 If  $\triangle ABC \cong \triangle DEF$  and if  $AB=3.5 = DE$  and  $BC = EF = 5.5$ , then necessary condition is  
 (a)  $\angle A = \angle D$       (b)  $\angle B = \angle E$       (c)  $\angle C = \angle F$       (d)  $CA = FD$
- Q.2 In  $\triangle PQR$ ,  $\angle R = \angle P$  and  $QR = 3\text{cm}$  and  $PR = 4.5\text{cm}$ . Then the length of  $PQ$  is  
 (a) 3cm      (b) 5cm      (c) 2 cm      (d) 2.5cm.
- Q.3  $ABC$  is an isosceles triangle with  $AB = AC$ . Draw  $AP \perp BC$ . Then  
 (a)  $\angle B = \angle C$       (b)  $\angle B + \angle C = 90^\circ$       (c)  $AP=BP$       (d)  $BP \neq PC$ .
- Q.4 In the given figure  $OP = OQ$  and  $OS = OR$ . Then which is false?  
 (a)  $\triangle POS \cong \triangle QOR$       (b)  $RQ=FS$       (c)  $\triangle POS \cong \triangle QOR$       (d) None of these
- Q.5 In  $\triangle ABC$ ,  $\angle A = 100^\circ$  and  $AB = AC$ , then  $\angle B =$   
 (a)  $40^\circ$       (b)  $60^\circ$       (c)  $30^\circ$       (d) None of these

**Section B – 2 Mark Each**

- Q.6 In the given figure,  $AC = AE$ ,  $AB = AD$  and  $\angle BAD = \angle EAC$ , show that  $BC = DE$ .



- Q.7 Prove that each angle of an equilateral triangle is  $60^\circ$ .

**Section C – 3 Mark Each**

- Q.8  $D$  is a point on side  $BC$  of  $\triangle ABC$  such that  $AD = AC$ . Show that  $AB > AD$ .

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