

**Section – A**

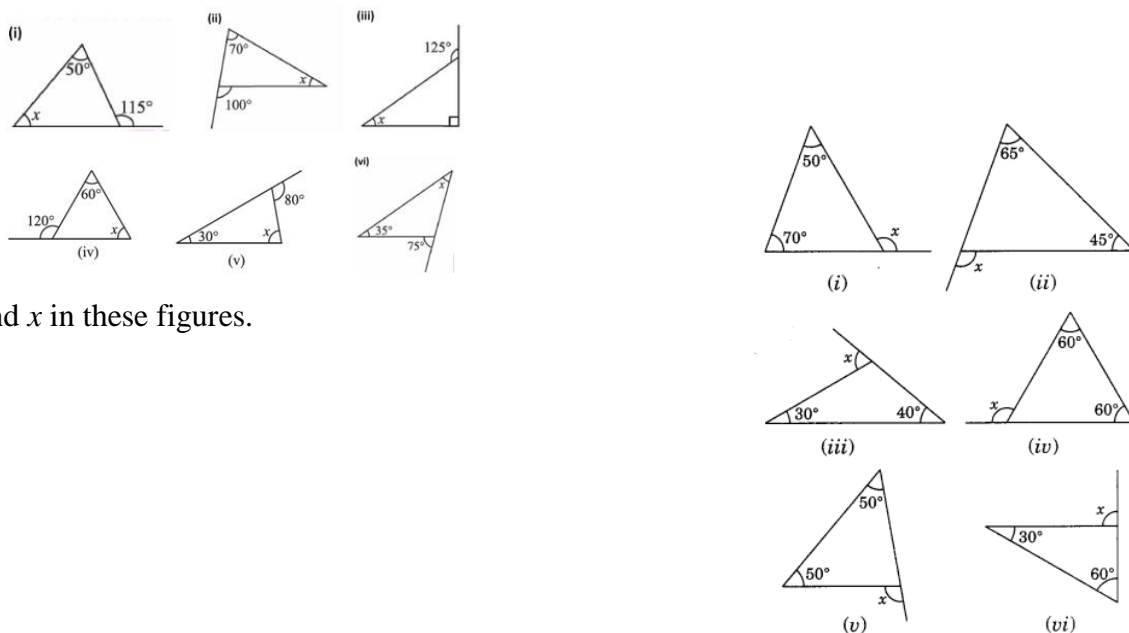
(Each question carries 1 mark)

- What is the sum of all angles of a triangle?  
 (A)  $360^{\circ}$  (B)  $90^{\circ}$   
 (C) no fixed value (D)  $180^{\circ}$
- If  $AB$ ,  $BC$  and  $CA$  are the sides of any triangle then which statement is true-  
 (A)  $AB + BC > CA$  (B)  $AB - BC > CA$   
 (C)  $AB + BC = CA$  (D)  $AB + BC < CA$
- How many altitudes can a triangle have?  
 (A) 1 (B) 2 (C) 3 (D) 4
- Two opposite angles of a triangle measures  $60^{\circ}$  and  $75^{\circ}$ , the measure of exterior angle is -  
 (A)  $95^{\circ}$  (B)  $15^{\circ}$  (C)  $135^{\circ}$  (D)  $100^{\circ}$

**Section – B**

(Each question carries 2 marks)

- In the following figure find the value of  $x$  in each case.



- Find  $x$  in these figures.

**Section – C**

(This question carries 3 marks)

- The lengths of two diagonals of a rhombus are 24cm and 10 cm, find the length of its side and also find its perimeter by using diagonal property of rhombus.

**Section – D**

(This question carries 4 marks)

- A Tree is broken at a height of 3m from the ground and its top touches the ground at a distance of 5m from the base of the tree.  
 (a) Which property apply to solve this question? **1**  
 (b) Find the length of broken part. **2**  
 (c) Find total length of tree. **1**