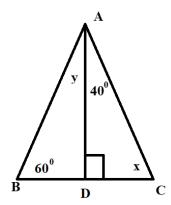
## SUBJECT: MATHEMATICS STD-VI **TOPIC-TRIANGLES** ASSIGNMENT (STANDARD)

## Mark the correct alternative in each of the following questions

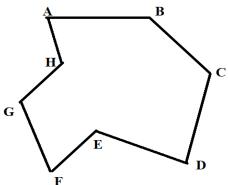
1.	In an eq	uilateral triangle each side is 12 cm then the perimeter is
	(i)	12 cm
	(ii)	24cm
	(iii)	36cm
	(iv)	48cm
2.	A triangle has at mostobtuse angles.	
	(i)	1
	(ii)	2
	(iii)	3
	(iv)	4
3.	A triangle divides the plane in parts.	
	(i)	1
	(ii)	2
	(iii)	3
	(iv)	4
	Answer the following questions	
4.	Define triangular region. (with figure)	
_	<b>5</b> 6:	

- Define exterior angle of a triangle. 5.
- 6. Show interior adjacent angles corresponding to exterior angle of a triangle with figure.
- Show interior opposite angles corresponding to exterior angle of a triangle 7. with figure.
- Two equal angles of a triangle are of each 50°. Find the third angle. 8.
- 9. Classify the triangle into acute triangle, obtuse triangle and right triangle with the following angles:
  - $80^{\circ}, 60^{\circ}, 40^{\circ}$ (i)
  - 130°, 40°, 10°
- Classify the triangle according to sides, that is, equilateral, isosceles and 10. scalene triangles:
  - (i) 12 cm, 10 cm, 5cm.
  - (ii) 6 cm, 10 cm, 6 cm.
- Is it possible to draw a triangle by taking the measurements 12cm, 10cm, 22cm as sides? Justify your answer.
- Draw a triangle by taking A, B and C non-collinear points on a plane and 12. answer the following questions.
  - Vertex opposite to side BC (i)
  - Angle opposite to vertex C
- In an isosceles triangle if the non-equal angle is 45°, then calculate the equal 13. angles.

- 14. Each side of a  $\Delta$  is one third of its perimeter. What kind of triangle is this?
- 15. One of the two equal angles of an isosceles triangle measures 55°. Determine the other angles.
- 16. The acute angles of aright angled triangle are in the ratio 8: 7, then calculate the acute angles.
- 17. In a triangle one angle is one-third of the greatest angle and another angle is two fifth of greatest angle. Calculate the angles.
- 18. From the following figure calculate x and y



19. Find the sum of the interior angles of the given polygon by dividing it into triangles.



20. In the figure calculate x

