## **MATHEMATICS**

## PRACTICAL GEOMETRY

1	In $\triangle$ RST, R = 5 cm, a construct $\triangle$ RST?	and $\angle$ SRT = 45° and $\angle$	RST = $45^{\circ}$ . Which cri	terion can be used to
	(A) A.S.A. criterion		(B) S.A.S. criterion	
	(C) S.S.S. criterion		(D) R.H.S. criterion	
Ans: (	A) A.S.A. criterion			
2	T1 (10 (1 1)	C		DI : 11/
2	•	of construction of the		IN given $LM = 6$ cm.
	(A) S.A.S. criterion		(B) R.H.S. criterion	
Ang. (	(C) A.S.A. criterion D) S.S.S. criterion		(D) S.S.S. criterion	
Alis. (	D) S.S.S. CHICHOII			
3	The idea of equal alte	rnate angles is used to	construct which of the	e following?
	(A) A line parallel to	_	(B) A triangle	
	(C) A square	S	(D) Two triangles	
Ans: (	A) A line parallel to a	given line.	. ,	
	-	_		
4		$AC = 5 \text{ cm,and} \angle B = 3$	$0^{\circ}$ , ΔABC cannot be ι	uniquely constructed,
	with AC as base, why			
		cluded angle are given		
		not be uniquely located	d.(D) The vertex A co	incides with the vertex
<b>A</b> (	C.	.1 . 1 1 . 1		
Ans: (	C) The vertex B canno	t be uniquely located.		
5		not on it are given. Wl	hich of the following i	s used to draw a line
	parallel to p through		(D) G	1
	(A) Equal correspond		(B) Congruent triang	7
A (	(C) Angle sum proper		(D) Pythagoras' theo	orem.
,	A) Equal correspondin	g angles.		
sol:	Corresponding angles	s of parallel lines are ed	aua1	
	Corresponding angles	s of paramer filles are e	quai.	
6	A POR is such that /	$P = \angle Q = \angle R = 60^{\circ} \text{ w}$	nich of the following i	s true?
O	(A) $\triangle$ PQR is equilate	•	(B) $\triangle$ PQR is acute a	
	(C) Both [a] and [b]		(D) Neither [a] nor [	•
Ans: (	(b) Both [a] and [b]		(2) 1 (class) [w] Her [	~]
sol:	- / [] []			
	In $\triangle PQR$ since all the	e angles are acute, it is	acute angled. Also sin	ice all the angles are
	equal, it is equilateral	_	Č	C
	-			
7	Which vertex of $\Delta AE$	BC is right angled if $\overline{A}$	$\overline{B} = 8 \text{ cm}, \ \overline{AC} = 6 \text{ cm}$	a,and $\overline{BC} = 10$ cm,?
	(A) ∠C	(B) ∠A	(C) ∠B <sup>'</sup>	(D) A or C

Ans: (	B) ∠A	
Sol:		
	From the given measurements, $\overline{BC}$ is the hypotenus which is a right angle.	se. The angle opposite to $\overline{BC}$ is $\angle A$
8	An isosceles triangle is constructed as shown in the	figure.
	R P	
	Which of the given statements is incorrect?	
	<ul> <li>(A) PR is the hypotenuse of ΔPQR.</li> <li>(C) ΔPQR is a right angled triangle.</li> </ul>	<ul> <li>(B) ΔPQR is an equilateral triangle.</li> <li>(D) If right angled ΔPQR has its.</li> <li>equal angles measuring 45° each</li> </ul>
Ans: (	B) $\Delta$ PQR is an equilateral triangle.	
9	$\Delta$ PQR is constructed with all its angles measuring 6 correct?	60° each. Which of the following is
	(A) ΔPQR is an equilateral triangle.	(B) $\triangle PQR$ is isosceles triangle.
	(C) $\triangle PQR$ is a scalene triangle.	(D) $\triangle PQR$ is a right angled triangle.
Ans: (	A) ΔPQR is an equilateral triangle.	
10	How many perpendicular lines can be drawn to a line (A) 1 (B) 2 (C) 0	ne from a point not on it? (D) Infinite
Ans: (		
11	Identify the false statement.	vilatanal tuian ala
	<ul><li>(A) A triangle with three equal sides is called an eq</li><li>(B) A triangle with a right angle is called a right an</li></ul>	•
	(C) A triangle with two equal sides is called a scale	C C
	(D) A right angled triangle has two acute angles and	
Ans: (	C) A triangle with two equal sides is called a scalene	e triangle.
12	$\Delta$ PQR is constructed such that PQ = 5 cm, PR = 5 constructed.	cm and $\angle RPQ = 50^{\circ}$ Identify the type
	(A) An isosceles triangle	(B) An acute angled triangle
	(C) An obtuse angled triangle	(D) Both [a] and [b]
Ans: (	D) Both [a] and [b]	
13	Which of the following is NOT constructed using a	rular and a cat causes?
13	(A) A perpendicular to a line from a point not on it.	<u>=</u>
	(B) A perpendicular bisector of a line segment.	
	(C) A perpendicular to a line at a point on the line.	
	(D) A line parallel to a given line through a given p	point.
Ans: (	B) A perpendicular bisector of a line segment.	

14	Step 3: With M as c Step 4: With P as ce Step 5: Draw OQ ar	OA.  entre and any co- entre and the sa- entre and the said produce it to	onvenien ime radiu me radius	s draw an arc to cut s, draw an arc to cut	t MN at Q.	
Ans.	What is the measure (A) 60° (C) 120°	e of ∠AOD? (B) 30°		(C) 120°	(D) 45°	
	. ,					
15	In $\triangle XYZ$ , x, y and z (A) $x - y > z$			Which of the follow (C) $x - y < z$	=	
Ans: (	(A) x - y > z					
16	In which of the following cases can a triangle be constructed?  (A) Measures of three sides are given.  (B) Measures of two sides and an included angle are given.  (C) Measures of two angles and the side between them are given.  (D) All the above.					
Ans:	(D) All the above.					
17 Ans: (	Based on the sides of (A) A right angled to (C) An obtuse angle (D) An isosceles trian	riangle ed triangle	(B) Ar	acute angled triang	ssification of triangles? gle	
18	Which of the follow	ving is used to d	row o lin	a narallal to a giver	n lina?	
10	(A) A protractor (C) A ruler	ing is used to d	(B) A	set square ruler and compasse		
Ans:	(D) A ruler and compa	asses				
19	Direction: David for creases formed, whi				wn in the figure are the	
	What can you say a	hout lines I and	n?			
	(A) 1 // n	(B) $1 \perp n$		s the same line as n	(D) Neither [a] nor [b]	
Ans: (sol:	(B) 1 ⊥ n					
501.	A 90° angle is form	ed at the interse	ection of	I and n. So $1 \perp n$ .		

A Choose the correct option in which a triangle CANNOT be constructed with the given lengths of sides.

(A) 3 cm, 4 cm, 5 cm
(B) 7 cm, 6 cm, 5 cm
(C) 10 cm, 7 cm, 2 cm
(D) 12 cm, 8 cm, 6 cm

Ans: (C) 10 cm, 7 cm, 2 cm

- 21 Identify the true statement.
  - (A) A triangle with 3 equal sides is isosceles.
  - (B) A triangle with a 110° angle is right angled.
  - (C) A triangle with 3 acute angles is acute angled.
  - (D) A triangle with 2 equal sides is equilateral.

Ans: (C) A triangle with 3 acute angles is acute angled.

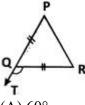
- Which of the following statements is incorrect?
  - (A) The sum of angles in a triangle is 2 right angles.
  - (B) The exterior angle of a triangle is equal to the interior angle of the triangle.
  - (C) The hypotenuse is the longest side of a right angled triangle.
  - (D) All the above.

Ans : (B) The exterior angle of a triangle is equal to the interior angle of the triangle.

- A triangular sign board is isosceles. If the unequal side is 7 cm and one of the equal sides is 6 cm, what is the measure of the third side?
  - (A) 5 cm
- (B) 6 cm
- (C) 7 cm
- (D) Either [a] or [c]

Ans: (B) 6 cm

In the given figure, find the measure of  $\angle ROT$ , if PQ = QR and  $\angle QPR = 60^{\circ}$ .



 $(A) 60^{\circ}$ 

- (B) 140°
- (C)  $120^{\circ}$
- (D)  $100^{\circ}$

Ans: (C) 120°

sol:

 $\Delta$ PQR is isosceles since PQ = QR.

 $\therefore \angle QPR = \angle QRP = 60^{\circ} \angle RQT$  is the exterior angle of  $\triangle PQR$  which is equal to the sum of interior opposite angles  $\angle P$  and  $\angle R$ .

Hence,  $\angle RQT = 60^{\circ} + 60^{\circ} = 120^{\circ}$ .

- Which among the following is used to construct a triangle?
  - (A) The lengths of the three sides.
- (B) The perimeter of the triangle.
- (C) The measures of three angles.
- (D) The names of three vertices.

Ans: (A) The lengths of the three sides.

sol:

S.S.S. criterion can be used indirectly to construct a triangle given the lengths of its three sides.

25	How many lin (A) 1	nes can draw fro (B) 2	om a given poir (C) Infinite	nt. (D) None of t	hese	
Ans: (	(C) Infinite		· /			
26	How many pa (A) 1	rallel lines can (B) 2	draw from a ou (C) Infinite	utside point of a given (D) None of t		
Ans: (	` /		· /	, ,		
Which among the following is used to construct a triangle?  (A) The lengths of the three sides.  (B) The perimeter of the triangle.  (C) The measures of three angles.  (D) The names of three vertices.						
Ans: (	Ans: (A) The lengths of the three sides.					
30	(A) 2	rallel lines can (B) 1	be drawn passi (C) 3	ng through a point, no (D) 0	t on the given line?	
Ans: (	<b>D</b> ) 1					
31	In which of the following cases is the construction of a triangle not possible?  (A) Measures of 3 sides are given.  (B) Measures of 2 sides and an included angle are given.  (C) Measures of 2 angles and a side are given.  (D) Measures of 3 angles are given.					
Ans: (	(D) Measures of					
32	dentify the true statement.  (A) A triangle with 3 equal sides is isosceles.  (B) A triangle with a 110o angle is right angled.  (C) A triangle with 3 acute angles is acute angled.  (D) A triangle with 2 equal sides is equilateral.					
Ans: (	(C) A triangle w	-	-			
33	lengths of side	es.	in which a triar		structed with the given	
	(A) 3 cm, 4 cm (C) 10 cm, 7 cm			(B) 7 cm, 6 cm, 5 cm (D) 12 cm, 8 cm, 6 cm		
Ans: (	(C) 10 cm, 7 cm			(2) 12 011, 0 011, 0 01		
34	Which is the l (A) BC	ongest side in t (B) A	_	C right angled at B? (C) AB	(D) None of these	
Ans: (	(B) AC	· /				
35	(A) 3 cm	angle right-ang (B) 7 o	-	= 3 cm and PR = 4 cm (C) 5 cm	, find QR. (D) 8 cm	
Ans: (	(C) 5 cm					
36	Which is the l	ongest side in t	the triangle PQ	R right angled at P?		

Ans: (	(A) PR (C) QR	(B) PQ	(C) QR	(D) None of these
37	The sum of the length the triangle.	ns of any two sides of a	a triangle is	the third side of
Ans: (	_	(B) doubled	(C) greater than	(D) half
	A/an (A) altitude		triangle to the mid-point (C) median	
Ans: (	(C) median			
	In the Pythagoras pro (A) acute-angled (C) right-angled	perty, the triangle mus (B) obtuse-angled	t be (C) right-angled	(D) None of these
Alis. (	(C) fight-angled			
		side of a right triangle? (B) Base		(D) None of these
	(A) Hypotenuse			
41	A triangle in which a (A) Equilateral	ll three sides are of equ (B) Scalene	nal lengths is called (C) Isosceles	(D) None of these
Ans: (	(A) Equilateral	. ,	. ,	
42	A triangle can be dra triangle.	wn if the hypotenuse a	nd a in the case	of a right-angled
Ans: (	_	(B) hypotenuse	(C) leg	(D) None of these
43	Sum of the lengths of	f any two sides of a tria	unale is areater than the	elength of the
			(C) third side	
44	A triangle can be dra	wn if angles and	one side given	
Ans: (	(A) 2	(B) 3	(C) 4	(D) None of these
45	(A) equal		neasure to the sum of i  (C) different	nterior opposite angles (D) None of these
Ans: (	(A) equal			
46	ΔABC is right-angled (A) 17 cm	d at C. If AC = 5 cm ar (B) 7 cm	nd BC = 12 cm find the (C) 13 cm	length of AB. (D) None of these
Ans: (	(C) 13 cm	•	•	•

47 Ans	Identify the true statement.  A) A triangle with 3 equal si B) A triangle with a 95 ongl C) A triangle with 3 acute ar D) A triangle with 2 equal si C	e can be right angles is acute an	ngled. ngled.		
48 Ans	In which of the following cas A) Measures of 3 sides are g B) Measures of 2 sides and a C) Measures of 2 angles and D) Measures of 3 angles are : D	riven. an included ang a side are give	le are given.	iot possibl	e?
49	Choose the correct option in lengths of sides.  A) 3 cm, 13 cm, 15 cm  C) 9 cm, 6 cm, 2 cm	which a triangl	B) 6 cm, 6 cm, 6 cm, 8	m	th the given
Ans:			D) 13 cm, 6 cm, 8	CIII	
50 Ans	Which among the following is A) The lengths of the three s C) The measures of three and A	ides	construct a triangle? B) The perimeter of the names of the construction of the constru		
51	In the given figure, find the n A) 80° C) 100°	neasure of $\angle R$ 0 B) $135^0$ D) $110^0$	QT (exterior ∠le), if	PQ=QR a	nd∠QPR=50 <sup>0</sup>
Ans	: C			ý, Ť	H R
52	Direction: Meera folds a sheefigure are the creases formed the following is true?  A) 1//m  C) n//m		ned as 1, m and n. V	vn in the	// // m
Ans:	A				
53	Direction: Meera folds a sheefigure are the creases formed you say about lines 1 and n?				/ /

Ans :	A) 1//m : B	B) 1⊥n	C) 1 is t	ne same line as n	D) Neither (A) nor (B)	
54				_	orugarh is isosceles. If the what is the measure of the third	
Ans	A) 9 cm	B) 8 c	em	C) 17/2 cm	D) Either (A) or (C)	
55 Ans	Which of the follo A) A protractor: D	_	ed to draw set square	-	<u> </u>	
56 Ans	<ul> <li>Which of the following statements is incorrect?</li> <li>A) The sum of angles in a triangle is 2 right angles.</li> <li>B) The exterior angle of a triangle is equal to the interior angle of the triangle.</li> <li>C) The hypotenuse is the longest side of a right angled triangle.</li> <li>D) All the above</li> <li>Ans: B</li> </ul>					
57	• •		-		point not on the given line?	
Ans	A) 2 : B	B) 1		C) 3	D) 0	
58	<ul> <li>In which of the following cases can a triangle be constructed?</li> <li>A) Measures of three sides are given.</li> <li>B) Measures of two sides and an included angle are given.</li> <li>C) Measures of two angles and the side between them are given.</li> <li>D) All the above</li> </ul>					
Ans	· · · · · · · · · · · · · · · · · · ·					
59	Which type of tria A) An equilateral C) A right angled	triangle		B) A scale	<u> </u>	
Ans		S		,		
60 Ans	The measurements following is correct A) Δ DEF can be C) Δ le cannot be: C	ct? constructe	d.	B) Δ DEF i	nd ∠F=82∘ Which of the s an obtuse angled triangle. Is an acute angled triangle.	
61 Ans	<ul><li>A) A right angled</li><li>C) An obtuse ang</li></ul>	triangle		B) An acut	s a classification of triangles? e angled triangle celes triangle	

62 Ans	Which of the following can be used to construct a 30° angle?  A) Construct a 60° angle using compasses and bisect it.  B) Construct a perpendicular bisector of a line segment.  C) Construct the bisector of any angle.  D) Construct an angle congruent to any given angle.  s: A				
63 Ans	Rohan thinks he knows how to bisect angles and follows following steps to construct 45°angle.  Step 1: Construct an angle of 90°.  Step 2: Bisect the 90° angle.  Step 3: Bisect one of the angles obtained in step 2.  Which steps is not required to construct a 45°angle?  A) Step 1  B) Step 2  C) Step 3  D) Step 2 and 3				
7 1113					
64	In $\triangle$ XYZ,a, b, c denote the three sides, which of the following is incorrect?				
Ans	A) a-b>c B) a+c>b C) a-b <c a+b="" d)="">c : A</c>				
Ans	<ul> <li>Which of the following is NOT constructed using a ruler and a set square?</li> <li>A) A perpendicular to a line from a point not on it.</li> <li>B) A perpendicular bisector of a line segment.</li> <li>C) A perpendicular to a line at a point on the line.</li> <li>D) A line parallel to a given line through a given point.</li> <li>B</li> </ul>				
66	Given PQ=6 cm, QR=55 cm and RP=55 cm, what type of a triangle can be constructed?				
	<ul><li>A) An acute angled triangle.</li><li>B) An obtuse angled triangle</li><li>C) An equilateral triangle</li><li>D) A right angle triangle</li></ul>				
Ans	, , , , , , , , , , , , , , , , , , , ,				
67 Ans	Identify the false statement.  A) A triangle with three equal sides is called an equilateral triangle.  B) A triangle with a right angle is called a right-angled triangle.  C) A triangle with two equal sides is called a scalene triangle.  D) A right angled triangle has two acute angles and a right angle.  C				
68 Ans	Identify the condition to be checked before constructing a triangle.  A) Sum of the three angles is 180°.  B) The sum of any two of the sides is greater than the third side.  C) The difference of any two sides in lesser than the third side.  D) All the above.				

69 Ans :	Identify the condition when a triangle can be A) One side and two acute angles are given B) A side and an acute angle are given C) Two obtuse angles are given. D) All given sides are equal.		
70	How many perpendicular lines can be drawn	n to a line from a p	oint not on it?
Ans :	A) 1 B) 2	C) 0	D) Infinite
71	ΔPQR is constructed with all its angles measurement?	suring 60° each. W	hich, of the following is
	<ul><li>A) ΔPQRis an equilateral triangle.</li><li>C) ΔPQR is a scalene triangle.</li></ul>	<ul><li>B) ΔPQR is isoso</li><li>D) ΔPQR is a rig</li></ul>	celes triangle. tht angled triangle.
Ans: A	A		
72	Rajkumari folds a sheet of paper in the follo A) Line O   line of P B) Line m⊥ line n C) With respect to lines O & P, line 'n' is a t D) With respect to lines m and n, line 'O' is	transversal	of the following is false?
Ans : I	3		
73	<ul> <li>A triangle is constructed as shown in the fig about ΔDEF?</li> <li>A) ΔDEF has all its sides equal.</li> <li>B) ΔDEF is an acute angled triangle.</li> <li>C) ΔDEF is a scalene triangle.</li> <li>D) ΔDEF is not an equilateral triangle.</li> </ul>	ure. Which of the	following is not correct
Ans:	A		
74	In $\triangle ABC \ \overline{AB} > \overline{BC} > \overline{CA}$ which of the followal $\triangle A$ $\triangle A$ $\triangle B$ $\triangle B$	wing is the smalles C) ∠C	st angle? D) ∠A=∠B=∠C
Ans :	В		
75 Ans :	<ul> <li>An isosceles triangle is constructed as shown statements in incorrect?</li> <li>A) PR is the hypotenuse of ΔPQR.</li> <li>B) ΔPQR is an equilateral triangle.</li> <li>C) ΔPQR is a right-angled triangle.</li> <li>D) In right angled ΔPQR, its equal angles m</li> </ul>		C

76	A) $30^{\circ}$	t gets constructed: afte B) $45^0$	r step 4 and by joining $C) 60^{0}$	g the points O and T. D) 90 <sup>0</sup>
Ans:	D			(Mark point T, using T equal arms of compass drawn form S and R and intersecting at T) (Step 4)
				Mark R (Step 2) OP = PR  Mark S (RS=PR) (Mark P using compass) (Step 3)
77	In the above figure, ic and S.	lentify the angle constr	ructed after step 3 and	d by joining the points O
Ans:	A) $80^{0}$ C	B) 75 <sup>0</sup>	C) 120 <sup>0</sup>	D) 135 <sup>0</sup>
78	Identify the angle that points O and U (where A) 40° B) 140° C) 135° D) 150°	t is constructed after st e $PR = RS = ST$	Mark U, using equal arms of compass	ow and by joining the  Mark S (Step 3)  R Mark R (step 2)
Ans:	D		Mark T (Step 4)	O P A (Mark P, (step 1)
79 Ans :	Given AB=6 cm BC=constructing ΔABC.  A) Step 1 is correct s B) Step 2 & 3 are rig C) All steps 1 to 3 are D) None of the above C	ht step 1 is wrong e right	are'l' such that length of are from A = 6cm (Step 2)	(are 'm' such that length of are from 'C' = 7cm) (step 3)
80	Which property has b	een used to construct t		drawn, step 1) n 33?
Ans:	A) RHS property	B) SSS property	• •	D) ASA property
81	shown?  Step 1: Draw AB=3 c  Step 2: Draw angle = Step 3: Cut off length	m 70 <sup>0</sup> from B using protr = 5 cm to get C	actor	nstruct the Δlecorrectly
	<ul><li>A) Step 1 is correct</li><li>C) All steps are corre</li></ul>	B) Step 2 is D) Step 1	s correct should be to draw BC	C = 5  cm
Ans:	D			

82 Ans:	, <u> </u>			-	35. D) AAA property
83 Ans :	A line p and a point X line parallel to p throu A) Equal correspond C) Heron's formula	ıgh X?	B) Congrue	of the following of the	can be used to draw a
84 Ans :	Given AB=3 cm, AC=AC as base, why? A) Two sides and inc B) The other two ang C) The vertex B cann D) The vertex A coin C	cluded angle are gles are not give not be uniquely	e given. en. located.	C cannot be uniqu	ely constructed, with
85 Ans :	the measure of PQ? A) 2 cm	n ∠Q=90 <sup>0</sup> , QR= B) 6 cm		R = 5 cm is constr 7 cm	ucted. What would be D) 3 cm
86 Ans :	The idea of equal alte A) A line parallel to a	_			following? D) Two triangles
87	triangle?				used to construct this
Ans:	A) ASA A	B) SSS	C) ;	SAS	D) RHS
88 Ans :	Which one of the followard $A$ ) $\angle 3 = \angle 1 + \angle 2$ C) $\angle 2 = \angle 1 + \angle 3$ A	B) ∠1	or the given t = $\angle 3+\angle 2$ th (A) and (I		

89	The criterion is use when the lengths of the		_		
	A) SAS	B) SSS	C) RHS	D) ASA	
Ans :	A) SAS B	D) 333	C) KHS	D) ASA	
90 Ans :	A triangle can be cons A) 1.8 cm, 2.6 cm, 4. C) 2.4 cm, 2.4 cm, 6.8 B	4 cm B) 2	sides as cm, 3 cm, 4 cm .2 cm, 2.3 cm, 5.5 cm		
91 Ans :	/ /		o of its angles as C) $135^{0}$ , $45^{0}$	D) 90 <sup>0</sup> ,90 <sup>0</sup>	
92	Which of the following triangle? A) 3 cm, 4 cm, 6 cm C) 1.5 cm, 3.6 cm, 3.		B) 9 cm, 16 cm, 26 cm		
Ans :		9 CIII	D) 7 cm, 24 cm, 26 c	2111	
93	In which of the following cases, a unique triangle can be drawn?  A) AB=4 cm, BC=8 cmand CA=2 cm  B) BC=5.2 cm, ∠S=90 <sup>0</sup> and ∠C=110 <sup>0</sup> C) XY=5 cm, ∠X=45 <sup>0</sup> and ∠Y=60 <sup>0</sup> D) An isosceles triangle with the length of each equal side 6.2 cm.				
Ans:	C				
94	side lies between 3 cm B) It is possible to co	vo sides of a triangle n and 17 cm. nstruct a unique trian	are 7 cm and 10 cm, the	s are given.	
	<ul><li>C) An angle of 7— o</li><li>D) None of these</li></ul>	can't be constructed u	sing compasses and rul	er.	
Ans:	C None of these				

95 Ans :	Which of the following steps is INCORRECT while constructing $\Delta XYZ$ if it is given that $XY=6$ cm, $\angle ZX_y=30^0$ and $\angle XYZ=100^0$ Step 1: Draw line XV of length 6 cm. Step 2: At X, draw a ray XP making an angle of 30owith XY. Step 3: At V, draw a ray YQ making an angle of 100o with YX. Step 4: The point of intersection of the two rays XY and YQ is Z. A) Step 1 B) Step 2 and Step 4 C) Step 3 D) Step 4: D					
96	Which among the following is used to construct a triangle?					
	A) The lengths of the three sides. B				B) The perimeter of	the triangle.
	C) The measures of three angles. D) The names of three					ee vertices.
Ans: A						
97	In the given figure, find the measure of $\angle ROT$ , if PQ=QR and $\angle QPR=60^{\circ}$ . A) $60^{\circ}$ B) $140^{\circ}$ C) $120^{\circ}$ D) $100^{\circ}$					
		$0_{\Omega}$	<i>U</i> ,	B) $140^{0}$	C) $120^0$	D) $100^{0}$
Ans: C						
98	Arrange the given steps in CORRECT order, while constructing $\triangle PQR$ where PM $\perp QS$ and it is given that QR=4.2 cm, $\angle Q=120^{0}$ and PQ=3.5 cm. Step 1. Now, extend RQ to S and with P as centre and with a sufficient radius, draw an					
	arc, cutting SO at A and 8.					
	Step 2. Along QX, set off QP=3.5 cm.					
	Step 3. Draw a line segment QR= $4.2$ cmand construct $\angle$ RQX= $120^{\circ}$ .					
	Step 4. Joint PR.					
	Step 5. Joint PC, meeting RQ product at M. Then. PM⊥QS					
	Step 6. With A as centre and radius more than half AB, draw an arc. Now with B as					
	centre and with the same radius draw another arc, cutting the previous arc at C.					
	A) $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6$ B) $4 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 5 \rightarrow 6$					
<b>A</b>	C) $2\rightarrow 4\rightarrow 3\rightarrow 1\rightarrow 5\rightarrow 6$ D) $3\rightarrow 2\rightarrow 4\rightarrow 1\rightarrow 6\rightarrow 5$					
Ans: D						
99	9 State 'T' for true and 'F' for false.					
	(1) In a triangle, the measure of exterior angle is equal to the sum of the measure of					
	interior opposite angles.					
	<ul><li>(2) The sum of the measures of the three angles of a triangle is 90o.</li><li>(3) A perpendicular is always at 90o to a given line or surface.</li></ul>					
	(3) A A)	(1)	(2)	(3)	ven fine of surface.	
	T	T	F	(3)		
	B)	(1)	(2)	(3)		
	T	F	F	(2)		
	C) T	(1) F	(2) T	(3)		
	D)	г (1)	(2)	(3)		
	F F	T	F	(-)		
Ans :	В					

- Which of the following steps is INCORRECT while constructing ΔLMA,right angled at M, given that LN=5 cmandMN=3 cm?
  - Step 1. Draw MN of length 3 cm.
  - Step 2. At M, draw MX1MN. (L should be somewhere on this perpendicular).
  - Step 3. With N as centre, draw an arc of radius 5 cm. (L must be on this arc, since it is at a distance of 5 cm from N).
  - Step 4. L has to be on the perpendicular line MX as well as on the arc drawn with centre N. Therefore, L is the meeting point of these two and ALMA/ is obtained.
  - A) Only Step 4
- B) Both Step 2 and Step 3
- C) Only Step 2
- D) None of these

Ans: D