			VIVEK TUTORIALS X (English)		DATE: 21-02-19		
			(Special Test)	TIME: 50 Mins			
5			Mathematics Part - II-(4)	MARKS:	30		
			SEAT NO				
Q.1		Solve the follow	ving (IX)			2	
	1	In each of the fo point which lies	blowing, decide whether the relation of between ness exists among the points A, B between the other two. $d(A, B) = 5$, $d(B, D) = 8$, $d(A, D) = 11$	3 and D. N	ame the		
	2	If two intersection Draw the figure	ng circles with two points in common are drawn then how many common chords and write the answer.	can be dra	wn?		
Q.2	1	Attempt the following of the following o	owing (IX) O S R the following question from above fig. action of ray NS and ray NM'. of which seg RO is a subset.			4	
	2	How many lines	are there which are parallel to x-axis and having a distance 5 units from it?				
Q.3		Multiple Choice	Questions			2	
	1	How many comma. One b. T	mon tangents can be drawn to two circles, touching each other externally? Two c. Three d. Four				
	2	If \triangle ABC $\sim \triangle$ PC a. \triangle ABC is big	QR and $\frac{AB}{PQ} = \frac{7}{5}$, then ger. b. \triangle PQR is bigger. c. Both triangles will be equal. d. Can	not be deci	ded.		
Q.4		Answer the follo	owing			2	
	1	Complete the fo Draw a circle Take any poir Draw a perpe	Ilowing activity to draw a tangent to a circle at a point on the circle. of radius 2.2 cm with O as centre. th P on the circle and draw ray OP. endicular line to the ray at point P. the perpendicular line as <i>I</i> . the tangent at point P.				
Q.5		Solve the follow	ving			6	
	1	Construct a tang	gent to a circle using the centre of the circle.				
	2	Construct a tang	ent to the circle without using centre of the circle.				
Q.6		Answer the follo	owing			8	

 $\triangle ABC \sim \triangle LBN$. In $\triangle ABC$, AB = 5.1 cm, $\angle B = 40^{\circ}$, BC = 4.8 cm, $\frac{AC}{LN} = \frac{4}{7}$. Construct $\triangle ABC$ and $\triangle LBN$. 1

- 2 Draw a circle of diameter 6.4 cm. Take a point R at a distance equal to its diameter from the centre. Draw tangents from point R.
- Q.7 Answer the following
 - 1 Draw a tangent to the circle with centre 'O' and radius 3.3 cm from a point A such that d (O, A) = 7.5 cm. Measure the length of tangent segments.
 - 2 Draw a circle with centre P and radius 3.1 cm. Draw a chord MN of length 3.8 cm. Draw tangents to the circle through points M and N.