## LUCKNOW PUBLIC SCHOOLS & COLLEGES CLASS - IX (CBSE)

	Candidate's Name in CAPITAL letters																		
Ca	ındidat	e's Nan	ne in	CAF	PITAI	L let	ters					$\neg$					T	1	
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Rol	l No. :		Ca	ndid	late's	Sig	natur	e	T <sub>E</sub>			[nvi	igila	tor's	Sigr	natu	ıre		
Dat	e:							. M	arks	Ob	tained	d							
Tim	ne:1½	Hrs.																N	И.М.: 40
							M	ATI	HEI	MA	TIC	S							
Gen (ii) (iii) (iv) (v) (vi)	Sect Sect Sect Ther	struction-A coion-B coion-C coion-C coion-C the corr	onsi onsi onsi nega	sts o sts o sts 1 tive	f 20 q of 20 d 0 que mari	ques ques estic king	tions stion ons b	of 1 s of 1 ased	mai 1 ma 1 on	rk ea irk e two	ich. A ach. A Case	ny Any Sti	16 q j 16 udie	uest ques s. At	tions	is are	re to	ve ai	mpted. tempted. tions.
							11		CTI										
Secti	on -A c	onsists	of 20	que	stion	s of	1 mai	rk ea	ch.	Any	16 qu	esti	ions	are t	o be	att	empt	ed.	
Q.1.	Betw	een tw	o rai	tiona	al nu	mbe	ers th	ere i	s/a	re:									
	(a)	exact	-																
	(b)	infini	-						ers										
	(c)	only						(2)			•				*				
O 2	(d)	only i	2						ľ										
Q.2.	Whic	h of the						ona	l nu	mbe	er ?								
	(a)	$\sqrt{\frac{4}{9}}$			(b)		$\frac{12}{\sqrt{3}}$		(	c) ,	√7		* 1 m	(	(d)		$\sqrt{81}$		
2.3.	Value	of (2°	+ 3°	+ 5°)	)² is :	. ·												,	
	(a)	9		. (	(b)	3			(	c)	$\frac{2}{3}$			1	(d)		100		
2.4.	Which	of the	foll	owir	ng is	not	true	?			, 5				,				
	(a)	a <sup>x</sup> × a <sup>y</sup>			~						(b)		a <sup>x</sup> ÷	ay:	= a <sup>x.</sup>	-у			
	(c)	(a*) <sup>y</sup> =	= a <sup>xy</sup>	-							(d)		(ab	)× =	a <sup>x</sup> .b	x			

Rough work space

	Q.5.	Whi	ch number	does no	ot lie betwee	n 2 and 3	?			
	0.4	(a)	$\sqrt{5}$	(b)	$\sqrt{7}$	(c)	$\sqrt{8}$	(d)	$\sqrt{10}$	٢
	Q.6.	The l	inear equa unique s	tion 3x-	11y=0 has:	(b)	two .	20.5	<b>V</b>	L
		(c)	infinite n			(d)	two solu			Г
(	Q.7.	x=0 is	the equat	ion of :	ations		no solut	ion		L
		(a)	x-axis			(b)	y-axis	r, a.		
Ç	2.8.	(c) The or	line paral	lel to x-	axis	(d)	line para	llel to y-a	kis	[
			(2, 0)		2 passes thr					
Q			No. 10-100 St.	nt does	(2, 3) the point (-7	(c) 7 -4) lie ?	(5, 12)	(d)	(3, 2)	-
		(a)		(b)		(c)	III	(1)		
Q.	10. 7	The poi	int which				5 units in t	(d) the pegativ	IV ve direction	of
								ine negati	·	OI .
0.1	•		0, –5)	(b)	(-5, 0)	(c)	(5,0)	d)	(0, 5)	
٧.1	(a	) case (	or parallel orrespond	lines, s	um of two	angle: (b)	s is always	180°.		
	(c)		ertically o			(d)	alternate,			•
Q.12	2. W				not a criteri	on for cor	ngruence o	of triangles	· ·	14-3
	(a)	SS	SA ·	(b)	SAS	(c)	ASA	(d)	SSS	
Q.13	. Ea	ch of t	he two eq	ual side	s of an isos	celes righ	t-triangle	is 10 cm lo	ong. Its area	is:
	(a)	$5_{\nu}$	10 cm <sup>2</sup>	(b)	50 cm <sup>2</sup>	(c)	10√3 cm	² (d)	75 cm <sup>2</sup>	
Q.14.	. The	e range	e of 25, 81,	20, 22,	16, 6, 17, 15	5, 91 is:				
_	(a)	10		(b)	26	(c)	75	(d)	85	
Q.15.	Any	point	on the x-	axis of	the form :					
	(a)	(x, y)			(0, y)	(c)	(x, 0)	(d)	(x, x)	
2.16.	Two	vertic	ally oppo	site an	gles measu	re (3x+40	)° and (5x-	10)° , valu	e of x is:	
	(a)	25			30	(c)	20	(d)	35	
			gure, ∠O		200	A				
	(a)	60°			30°	75°\	\			
	(c)	45°	KING ST	(d) 4	10°	DZ100	0 1000			
							C			

V.1	о. пд	D=QK, BC=KF	and C	A=PQ,	then						
	(a)	$\Delta ABC \cong \Delta P$				(b)	$\triangle ABC \cong \triangle C$				
0.1	(c)	$\triangle ABC \cong \triangle C$				(d)	$\triangle ABC \cong \triangle I$		. which	,	
Q.T	9. Are will	a of a triangle be :	ıs 'A' ar	nd its si	des are	a, b, c	such that a>	b>c, shor	test aititude		_
	(a)	2A	(b)	2A		(c)	$\frac{2A}{c}$	(d)	$\frac{a}{2A}$		
Q.20	). In th	ne graphical pr								e	
	reac	tangles, this is	called	:							
	(a)	bar graph		(b)			olygon				
	(c)	ogive		(d)	histog		_				
Secti	ion-B	onsists of 20 c	uestio	ns of 1	SECT	ION -	nv 16 auest	ions are	to be attem	pted	•;
		e of (243) <sup>-3</sup> 5 is		113 01 1	mark	acii. A	ing 20 queen				
Q.21	, varu	C OI (243) 73 I.	J .						1		
	(a)	27	(b)	$\frac{1}{27}$		(c)	-27	(d)	$\frac{1}{-27}$		
				2/							
Q.22.	$\sqrt{9}$	$\frac{1}{\sqrt{8}}$ is equal to	0:								
	(2)	1	(b)	0		(-)	0 0 5	(d)	$3 + 2\sqrt{2}$		
						(c)	$3 - 2\sqrt{2}$	(4)	3+242		
Q.23.	Value	e of $2\sqrt{2} \times 3\sqrt{3}$	$3 + 2\sqrt{6}$	is:							
	(a)	$8\sqrt{6}$	(b)	$6\sqrt{5}$		(c)	$\sqrt{36}$	(d)	48		
Q.24.	Value	e of $0.\overline{33}$ is:			¥						
	(2)	$\frac{3}{10}$	(b)	0.3		(a)	20	(4)	1		
									3		
Q.25.	If $x=3$	k+2 and $y=2$	2k-1 is	solutio	on of x	+y=11,	then value	e of k is:			
	(a)	-2	(b)	3		(c)	-3	(d)	2		
Q.26.	Which	n of the follow	ving pa	asses th	rough	origin	?				-
	(a)	y+2=x	(b)	y=3x	+0	(c)	x+2=y	(d)	x+y=7		
Q.27.	Which	n of the follow	ving is	not the	e soluti	on of l	inear equat	tion x-y=	2:		
	(a)	(4, 2)	(b)	(2, 0)		(c)	(2, 4)	(d)	(5, 3)		
Q.28.		ooints are P(3,								is:	
10	(a)	-7	(b)					(d)	3		
	()	3200	(-)			` '	AT31	(4)	0		

					int P fro	m x-axis is	7 units, the	en that point	an ho
	Q.29. I	f the perpendic	ular dis	tance of a po	c)	(7, 0)	(d)	none of thes	an ce
	(	a) (-3,7) Etwo angles∠A	(b)	(7, 3)	=5xº froi	m a linear p	pair of angl	es then (AC)	e ·
	Q.30. H	two angles ∠A	OC=4x	and ∠BOC	c)	80°	(4)	es, men ZAO	C=?
					-/		1111	I I II F	
C	2,31. În	i) 40° 1 ΔABC, ∠A =50	)º , bise	ctors of base	angles	2 miles C III	eet at point	t P inside the	
		iangle then va		115°	(c)	$110^{\circ}$	(d)	75°	
	(a)	) 105° ne length of eac	(b)	c aduilate	eral triar	ngle having		√3 cm² is ·	
Q	.32. 11	ie length of eac	h side o	f an equilities	(a)	10 cm			_
	(a)	8 cm	(b)	9 cm	(c)		(d)	6 cm	
Q.		d value of a cla nit will be :	ıss inter	val is 42 and	the cla	ss size is 1(	0. The low	er and upper	
	(a)	37-47	(b)	40-50	(c)	37-42	(d)	42-52	And i
Q.:	34. In t	he figure, the a	rea of t	he triangle A	$\ ABC \ is :$	¥ A(1	, 3)		
	(a)	15 sq. units					\		
	(b)	10 sq. units				B	1		
	(c)	7.5 sq. units	R - 1		<b>←</b>	1, 0) <sup>O</sup>	(4, 0) X		
	(d)	5 sq. units			, ,	,,,,,	(4,0)		
Q.35	2000	angle which is	twice o	of its comple	ment, is	s:			L
	(a)	75°	(b)	45°	(c)	30°	(d)	60°	Γ
0.36	2.00	e figure, if AD							L
2.00	(a)	AAA	viaceta		A	ien, AADD	= AACD	Бу	
	(b)	SSS			4				
	(c)	RHS							
	(d)	ASA		В	<u>B</u>	$\lambda_{\mathbf{C}}$			
Q.37.	It is g	given that ΔAB	$C \cong \Delta F$	DE and AB=	5 cm, ∠	(B=40° and	∠A=80°. V	Which of the	_
	TOHOV	ving is true?							
	(a)	DF=5 cm, ∠F	=60°		(b)	FD=5 cm	, ∠E=60°		
	(c)	DE=5 cm, ∠E			(d)	DE=5 cm	,∠D=40°		Γ
Q.38.	In the	figure ∠BAC= of dotted part	∠ADC	=90°, AB=2	4 cm. A	C=10 cm, A	AD=6 cm a	and CD=8 cm	۱. ـ
		1	is:	,	2 0111, 12	A			
	(a) (b)	96 cm <sup>2</sup>		. 10		(E)			
	(c)	48 cm <sup>2</sup>		Contract of	OAC.		E .		
	(d)	none of these				8 cm	Žc		_
	()	none of these		B∡	<u>/:::::</u>	سننشنن			

Q.39.	Class r	nark of a frequ	uency di	istribution a	re 15, 2	20, 25, class s	ize is :	_		Г	$\neg$		
	(2)	5	(b) 1	0	(c)	15	(4)	-5		l			
2.40.	Sides o	of a triangle ar	e 30 cm,	40 cm and	50 cm.	Its area Will 600 cm <sup>2</sup>	be:						
	(a)	1200 cm <sup>2</sup>			(b)	10*CONTENT CONTENT CONTENT CONTENT CONTENT CONTENT CONTENT CONTENT CONTENT				- 1	$\neg$		
	(c)	900 cm <sup>2</sup>			(d)	1500 cm <sup>2</sup>			•	,			
				SECT	ION -	С							
			C	J L 12 020	and a	uestions.	rtions a	wo to	. h				
Sec	Section-C consists of 10 questions of 1 mark each. Any 8 questions are to be attempted.  uestions 41 - 45 are based on case study -1												
	ions 41 Study -1		i on cuse	e study -1									
use	Mahee	h a student o	of class I	X , fixed thr	ee nail	s on the top	of the ta	able	formin	g	2.0		
	triangl	e ABC, one m	nore nail	was fixed a	t D so	that B, C, D	were in	a st	raight l	ine. In	this		
	way fo	ur angles we nd that secor	re forme	ed as shown	in the	figure.	ngle (/	1) an	d angle	three	( <b>∠</b> 3)		
	was do	ouble the first	angle (	$\langle 22 \rangle$ was tr $\langle 1 \rangle$	iree tiii	nes as mot a	.8.0 (-	-,		,,,,,,,	()		
				, A									
-				A						174			
				(1 2	<b>\</b> _1		0.00						
				$B \xrightarrow{\Delta 1 - 3}$	C 7.74	D							
2.41.	Which	is the correc	t relatio	n ?									
	(a)	∠1+∠3=∠4			(b)	Z2+Z3=Z							
	(c)	∠1+∠2=∠4			(d)	∠4+∠3=∠	<u> </u>				Ш		
2.42.		is the value of		2+∠3 ?	(b)	2 right an	ales						
	(a)	1 right angle			2.5	•	;; <del>=</del> .0;						
	(c)	3 right angle	es		(d)	none of t	hese						
Q.43.	Value	of $\angle 2$ is				828							
	(a)	30°	(b)	60°	(c)	120°	(d)	)	<b>30</b> °,				
Q.44.	Value	of $\angle 4$ is:											
	(a)	120°	(b)	90°	(c)	60°	(d	)	45°				
Q.45.		C is t	-	:	(I-)	aht	1 . 1						
	(a)	acute angle	ed		(b)		ingled						
	(c)	right angle	d		(d)	isoscele	s						