

## DELHI PUBLIC SCHOOL INDIRAPURAM, GHAZIABAD PRACTICE TEST PAPER 2023-24

			CLA	SS – 10			
Ti	me: 3 Hours	M. M.80	SUBJECT (I	MATHEMATICS)	No. of Q.: 38	No. of Page	es :05
	Namo				Poll No		
				KUII NO.			
	General Instructions :						
	1. This Question Paper has 5 Sections A-E.						
	2. Section A has 20 MCQs carrying 1 mark each						
	3. Section B has 5 questions carrying 02 marks each.						
	4. Section C	c has 6 que	stions carrying 03	B marks each.			
	5. Section D	) has 4 que	stions carrying 05	5 marks each.			
	6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-					-parts	
	of the val	ues of 1, 1a	and 2 marks each	respectively.			
	7. All Quest	tions are co	ompulsory. Howe	ver, an internal choic	e in 2 Qs of 5	marks, 2 Qs	s of 3
	marks ar	nd 2 Ques	tions of 2 marks	has been provided	. An internal o	choice has	been
	provided	in the 2ma	rks question of Se	ection E.		_	
	8. Draw nea	at figures w	herever required.	Take $\pi = 22/7$ where	ever required if	not stated.	
	SECTION -A	A					
1.	If two positiv	e numbers	m and n are expr	essible in the form m=	$na^3$ and $n=n^3$	$r^2 \cdot \mathbf{p}$ a	[1]
	being prime n	umbers, th	en HCF(m. n) is			· · P · · ·	
	(i) na	(ii) r	$a^2$	(iii) $n^3 a^2$	G	$(\mathbf{v})\mathbf{n}^2\alpha^2$	
	(1) P4	(n) ł	<b>'</b> 4	(m) p q	()	u)p d	
2	Prime factor	s of the den	ominator of a rati	onal number with dec	rimal expansion	44 123 are	[1]
	(i) $2.3$	(;;) 2 2 5		(jij) 2 5	annai Capansion	(125) arc $(125)$ arc $(125)$	r.1
	(1) 2,3	(11) 2,3,3		(111) 2,3	U)	(v) 5,5	
2	Tellin	41	C 41		20 41 41	1	[4]
э.	If p and q ar	e the zeroes	s of the polynomia	$1 x^2 - 6x + k and 3p + 2q$	=20, then the va	iue of K is	[1]
	(1) -8	(II) <b>16</b>		(111) - 16	(IV) 8		543
4.	The value of	k for which	the system of equ	iations kx+y=k <sup>2</sup> and x	x+ky=1 has infin	itely many	[1]
	solutions, is	<i></i>			<b>(•</b> ) <b>(</b>		
	(i) 1	(ii) 2		(iii) 3	(iv) 4		
5.	If one root of	f the equation	on $3x^2 = 8x + (2k+1)$	is seven times the oth	er, then the val	ue of k is	[1]
	(i) 7/3	(ii) 5/3		(iii) -5/3	(iv) -7/3		
6.	$\Delta$ ABC is suc	ch that AB=	3cm, BC=2cm, CA	A=2.5cm. If $\triangle ABC \sim \Delta$	<b>DEF</b> and <b>EF</b> =4	cm, then	[1]
	perimeter of <b>/</b>	<b>A DEF is</b>					
	(i) <b>7.5cm</b>	(ii) 1	.5cm	(iii) 22.5cm	(iv) 30	cm	
7.	The perimete	er of the tri	angle with vertices	s (0,4), (0,0),(3,0) is			[1]
	(i) <b>5</b> units	(ii) 1	5units	(iii) 12units	(iv) 2	5units	
8.	Two of the v	ertices of a	<b>A ABC are given l</b>	by A(6, 4) and B(-2. 2)	) and its centroi	d is G(3, 4).	[1]
	Find the coor	dinates of t	he third vertex C	of the $\Delta ABC$ .			
	(i) (2.3)	(ii) (	4.6)	(iii) ( <b>4.3</b> )	(iv)	) (5.6)	
		() (	j - J			~ ~- ,~ ,	
9.	If sin $\theta$ + sin <sup>2</sup>	$\theta = 1$ . then	$\cos^2 \theta + \cos^4 \theta = 1$				[1]
	(i) 1	(ii) 2		(iii) <b>3</b>	(iv) <b>4</b>		
10.	If sinA=x and	$\frac{1}{1} \cos A = v t$	hen tanA is equal	to	() •		[1]
	(i) $\mathbf{x}\mathbf{y}$	(ii) x/v	ien unici is equal	(iii) v/x	(iv) 1/vv		
11	If v tan 15° a	$\frac{1}{10} \frac{30^{\circ}}{200} = 0.000$	30° tan 30° than	vis aqual ta	(IV) I/Xy		[1]
	(i) $\sqrt{2}$	111 JU = 008 (11) 1/2	Ju tan Ju, then	$rac{1}{1}$ is equal to (iii) $1/\sqrt{2}$	(iv) 1		[[1]
12	(1) \3	(11) 1/4		(111) 1/ 1/	(17) 1		[4]
12.	In the given	figure, if ∠l	$\mathbf{RPS} = 25^\circ, \text{ the value}$	ue of $\angle ROS$ is			ניז

	R				
	250 P				
	0 251				
	S				
	(i) $135^{\circ}$ (ii) $145^{\circ}$		(iii) 155°	(iv) 165°	
13.	The length of the minut	e hand of a clock	is 14 cm. The area s	wept by the minute hand in 5	[1]
	minutes is				
	(i) 153.9 sqcm (ii)	102.6sqcm	(iii) 51.3sqcm	(iv) 205.2sqcm	
14.	A cylinder and a cone a	re of same base ra	adius and of same he	eight. The ratio of the volume	[1]
	of the cylinder to that of	the cone is			
45	(i) 1:2 (ii) 3:1		(iii) 1:3	(iv) 2:1	F41
15.	The volume of a sphere	is 4851 cm <sup>3</sup> . Its d	iameter is		[1]
16	$(1) 3.5 \text{cm} \qquad (11)$	/cm	(111) 14cm 4h a unm an limit of th	(IV) 21cm	[4]
10.	In the given data, the di	s	the upper limit of th	le median class and the lower	ניז
	C I Frequency	<u>&gt;</u>			
	65-85 <b>4</b>	-			
	85-105 5	-			
	105-125 13	-			
	125-145 20	-			
	145-165 14	-			
	165-185 7	_			
	185-205 4				
	(i) <b>38</b> (ii) <b>20</b>		(iii) <b>19</b>	(iv) <b>0</b>	
17.	One of the methods for	determining mod	e is		[1]
	(i) Mode = 2 Median $-3$	Mean (ii) M	lode = 3 Median -3 N	Aean	
	(iii) Mode = 3 Median -2	Mean (iv) 2	Mode = 3 Median - N	Mean	
18	Cards marked with nur	nbers 2 to 101 are	e placed in a box and	mixed thoroughly. One card	[1]
	is urawn from uns dox r	andonny, then the	e probability that the	e number on card is a perfect	
	square. (i)9/100 (ii)	3/10 (i	ii) 19/100	(iv)1/10	
19	DIRECTION: In	the question num	ber 19 and 20, a stat	tement of assertion (A) is	[1]
_	followed by a stat	ement of reason (	R).		•••
1	Choose the correct	ct option	<i>,</i>		
	Question. Statem	ent A (Assertion);	: The HCF of two n	umbers is 5 and their	
	product is 150, th	en their LCM is 3	30		
	Statement R (Reason	n); For any two po	ositive integers a and	l b,HCF( a, b)+LCM ( a, b)	
	=a b				
	(a) Both asse explanat	rtion (A) and reast ion of assertion (A	son (R) are true and A).	reason (R) is the correct	
	(b) Both asse explanat	rtion (A) and reas	son (R) are true but : A).	reason (R) is not the correct	
	(c) Assertion	(A) is true but re	ason (R) is false.		
	(d) Assertion	$(\mathbf{A})$ is false but re	eason (R) is true.		
20.	Question. Statem	ent A (Assertion):	if the coordinates of	the mid-points of the sides	[1]
1	<b>AB</b> and AC of tri	angle ABC are D(	(3,5) and E(-3, -3) res	spectively, then BC=20 units.	
1	Statement R (]	Reason); The line	joining the mid-poin	its of two sides of a triangle is	
L	parallel to the thi	rd side and is equ	al to half of it.	5	

	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	
	(b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).	
	(c) Assertion (A) is true but reason (R) is false.	
	(d) Assertion (A) is false but reason (R) is true.	
	SECTION-B	
21.	Solve for x and y: 49x+51y=499 and 51x+49y=501	[2]
22.	In the figure, $PQRS$ is a trapezium in which $PQ    RS$ . On $PQ$ and $RS$ , there are points $E$ and $F$ respectively such that $EF$ intersects $SQ$ at $G$ . Prove that $EQ \times GS = GQ \times FS$ .	[2]
	S $F$ $R$ $G$ $G$ $P$ $E$ $Q$	
	OR	
23	In an equilateral triangle of side 12 cm, find the length of the altitude.	[2]
20.	Evaluate : $\frac{3 \tan^2 30^\circ + \tan^2 60^\circ + \csc 30^\circ - \tan 45^\circ}{\cot^2 45^\circ}$	[4]
24.	In figure, O is the centre of the circle and LN is a diameter. If PQ is a tangent to the circle at $K$ and $\angle KLN = 30^{\circ}$ , find $\angle PKL$ .	[2]
25.	The wheels of a car are of diameter 80 cm each. How many complete revolutions does each	[2]
	wheel make in 10 minutes when the car is travelling at a speed of 66 km per hour?	
	OR A chord of a circle of radius 10cm subtands a right angle at the control Find the area of	
	the corresponding minor segment. (take $\pi$ =3.14)	
	SECTION-C	
26.	Prove that the reciprocal of 3+2 $\sqrt{2}$ is irrational , if given that $\sqrt{2}$ is irrational.	[3]
	OR	
	Floor of a room is to be fitted with square marble tiles of the largest possible size. The size of the room is $10 \text{ m} \times 7 \text{ m}$ . What should be the size of tiles required that has to be cut and	
	how many such tiles are required?	
27.	Compute the zeroes of the polynomial $4x^2 - 4x - 8$ . Also, establish a relationship between	[3]
20	the zeroes and coefficients.	[0]
28.	In a sum of a two digit number and the number formed by interchanging the digit is 132. If 12 is added to the number, the new number becomes 5 times the sum of the digits, find the number. OR If twice the son's age in years is added to the father's age, the sum is 70. But if twice the	[3]
L		

	father's age is added to t	he son's age,	the sum is 95. Find the ages of father and son.	
29.	Prove that $(\sin^8 A - \cos^8 A)$	$\mathbf{A}) = (\mathbf{sin}^2 \mathbf{A} - \mathbf{a})$	$\cos^2 A)(1 - 2\sin^2 A \cos^2 A)$	[3]
30.	If a hexagon ABCDEF of OR	circumscribes	a circle, prove that AB+CD+EF=BC+DE+FA	[3]
	Prove that lengths of tar	ngents to a cir	rcle from the same external point are equal.	
31.	Peter throws two different	ent dice toget	her and finds the product of the two numbers	[3]
	obtained. Rina throws a	die and squar	res the number obtained. Write the probability to	
	find who has the better	chance to get	the number 25?	
	SECTION -D			
32.	A two-digit number is s number, the digits interc	uch that the p change their p	product of its digits is 14. If 45 is added to the places. Find the number.	[5]
	OR The perimeter of a recta rectangle.	ngular field is	s 82 m and its area is 400m <sup>2</sup> . Find the breadth of the	
33.	State and prove Thales	theorem Usi	ng the same solve the following	[5]
	In $\triangle$ ABC, D and E are $\angle B = \angle C$ , show that DE i	points on side s parallel to B	es AB and AC respectively such that BD=CE. If C.	[•]
34.	There are two spheres (	of same metal	weighing 1kg and 7kg. The radius of the smaller	[5]
	sphere is 3 cm. The two s	spheres are m	elted to form a single sphere. Find the diameter of	
	the new sphere.	-		
	OR			
	Water in a canal, 6 m w	vide and 1.5 m	deep, is flowing with a speed of 10 km/h. How much	
	anaa will it innigata in 20			
	area will it irrigate ill 30	minutes, if 8	cm of standing water is needed?	
35.	The median of the foll	<u>minutes, if 8</u> owing data i	cm of standing water is needed?	[5]
35.	The median of the foll	minutes, if 8 owing data i	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60.	minutes, if 8 owing data i	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60. Class interval	minutes, if 8 owing data i Frequency	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60. Class interval 0-10	minutes, if 8 owing data i Frequency 5	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60. Class interval 0-10 10-20 20-30	minutes, if 8 owing data i Frequency 5 x 20	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60. Class interval 0-10 10-20 20-30 30-40	minutes, if 8 owing data i Frequency 5 x 20 15	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
35.	The median of the foll frequency is 60. Class interval 0-10 10-20 20-30 30-40 40-50	minutes, if 8 owing data i Frequency 5 x 20 15 y	cm of standing water is needed? s 28.5. Find the values of x and y, if the total	[5]
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35. 36. 37.	area will it irrigate in 30    The median of the foll    frequency is 60.    Class interval    0-10    10-20    20-30    30-40    40-50    50-60    SECTION – E    Arc of a Baby Swing : WI    30 inch arc. As the swing    one.    (i) Write the A.P. forme    (ii) Find the length of the    (iii) Find the total numbe    OR    (iii) How far Mackenzie	minutes, if 8 owing data i Frequency 5 x 20 15 y 5 hen Mackenzie slows down, e ed. tenth swing. r of swings wh has travelled c	e's baby swing is started, the first swing (one way) is a each successive arc is 1.5 inch less than the previous then it comes to rest.	[5] [1] [1] [2]
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35. 36. 37.	area will it intigate in 30    The median of the foll    frequency is 60.    Class interval    0-10    10-20    20-30    30-40    40-50    50-60    SECTION – E    Arc of a Baby Swing : WI    30 inch arc. As the swing one.    (i) Write the A.P. former    (ii) Find the length of the    (iii) Find the total numbe OR    (iii) How far Mackenzie    Have you noticed that in coordinate system. Support ows as given below. Here	minutes, if 8 owing data i Frequency 5 x 20 15 y 5 hen Mackenzie slows down, e ed. tenth swing. r of swings wh has travelled c school assemi >se a school ha e A B, ,C and I	cm of standing water is needed?    s 28.5. Find the values of x and y, if the total    s    s    s    e's baby swing is started, the first swing (one way) is a each successive arc is 1.5 inch less than the previous    een it comes to rest.    during the 10 swings ?    bly you always stand in row and column and this make a ave 100 students and they all assemble in prayer in 10 D are four friend Amar, Bharat, Colin and Dravid.	[5] [1] [1] [2]
35. 36. 37.	The median of the foll frequency is 60. Class interval 0-10 10-20 20-30 30-40 40-50 50-60 SECTION – E Arc of a Baby Swing : WI 30 inch arc. As the swing one. (i) Write the A.P. forme (ii) Find the length of the (iii) Find the length of the (iii) Find the total numbe OR (iii) How far Mackenzie Have you noticed that in coordinate system. Suppor	minutes, if 8 owing data i Frequency 5 x 20 15 y 5 hen Mackenzie slows down, e ed. tenth swing. r of swings wh has travelled c school assemi >se a school ha ∋ A B, ,C and I	cm of standing water is needed?    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s    s 28.5. Find the values of x and y, if the total    s ach successive arc is 1.5 inch less than the previous    s ach successive arc is 1.5 inch less than the previous    hen it comes to rest.    during the 10 swings ?    bly you always stand in row and column and this make a ave 100 students and they all assemble in prayer in 10    D are four friend Amar, Bharat, Colin and Dravid.	[5] [1] [1] [2]
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