GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI,

CLASS: 10 th	NMENT URDU HIGH SCHOOL, KE PAPER-1	MARKS: 50
SUBJECT: MATHS	APRIL 2020-21	TIME: 2:00 hr
	for each of incomplete / statement / qu	
-	answer along withits letter of alphabe	
1. The nth term of an arithme	etic progression is $a_n = 4n + 5$ then the	he 3rd term is
a) 5 b) 9 c) 13	d) 17	
a) a secant b) a tange	g a circle at two points is called ent c) radius d) a normal	
	ions $x + 2y = 3$ and $2x + 4y = k$	are coincide then the value of 'k' is:
a) 3 (b) 6	c) -3 d) -6	
	c equation $x^2 + 6x + k = 0$ are equation	al, then the value of 'k' is :
a) 9 (b) -9 5. The value of $\sin 60^\circ \times \cos^2 60^\circ$	c) 8 d) 5	
a) $\frac{1}{4}$ (b) $\frac{\sqrt{3}}{4}$	c) $\frac{3}{4}$ d) $\frac{1}{2}$	•
II. Answer the following qu	iestions :	5x1=5
	the pair of linear equations $2x + 3y - 9$	
7. Write the standard form of	f a quadratic equation.	A
-	$A = \angle C$ and $BC = 10cm$, then find the	value
of <i>tan</i> 45°.		
9. Write the co-ordinates of t	the midpoint of the line segment joining	the points
$A(x_1, y_1)$ and $B(x_2, y_2)$.		
10. Find the median of the sco		Tocm
III. Answer the following qu		8x2=16
	$7 + 11 + \dots$ Up to 10 terms using the su	
13. Solve the following pair o	metic progression 2, 7, 12 using th	e formula.
3x + y = 15,	i incai equations :	
2x - y = 5		
14. Find the distance between	the points A (3, 6) and B (5, 7) using di	stance formula.
Or		
	of the point P, which divides the line join	ning A $(0, 0)$ and B $(5, 10)$ in the
ratio of 2:3.		int Q and another from the constant
15. Draw a circle of radius 4 c 16. Solve by using quadratic f	cm and construct tangents to it from a portion of the formula $r^2 = 3r + 1 = 0$	bint 8 cm away from the centre.
	The quadratic equation $2x^2 - 6x + 3 = 0$	and hence write the nature of roots.
Or		
	ic equation $x^2 + ax - 4 = 0$ has distinct, r	real roots.
18. Show that tan 48°. tan 23		1-
IV. Answer the following qu		5x3=15
Or	f tangents drawn from an external point t	to a circle are equal .
	s drawn at the ends of a diameter of a cir	cle are parallel
Ũ	e co-ordinates of the points A $(2, -2)$, B	1
	(2, 2), b	

21. Construct a triangle with sides 6 cm, 7 cm and 8 cm and then construct another triangle whose sides $\operatorname{are}_{\frac{3}{4}}^{\frac{3}{4}}$ of the corresponding sides of the constructed triangle.

22. A survey was conducted by a group of students as a part of their environment awareness programme, in which they collected the following data regarding the number of plants in 20 houses in a locality. Find the mean number of plants per house.

Number of plants	0 - 2	2 - 4	4 - 6	6 - 8	8 - 10	10 - 12	12 - 14
Number of houses	1	2	1	5	6	2	3

Or

The following data gives the information on the observed lifetimes (in hours) of 225 electrical components:

Lifetimes (in hours)	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100	100 - 120
Frequency	10	35	52	61	38	29
Determine the modal lifetimes of the components.						

23. The following distribution gives the daily income of 50 workers of a factory.

		•		•	
Daily income (in Rs)	100 - 120	120 - 140	140 - 160	160 - 180	180 - 200
Number of workers	12	14	8	6	10

Convert the distribution above to a less than type cumulative frequency distribution, and draw its ogive.

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

$$x+y=7,$$

x - y = 3

VI. Answer the following

25. State and prove Thale's theorem.

1x5=5

1x4=4

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and write the complete answer along withits letter of alphabet. 5x1=5 1. The Pair of lines $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ are intersecting lines then the ratio of their coefficients is : a) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ c) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ d) $\frac{a_1}{a_2} = 2$. 2. 2, x, 14 are in Arithmetic progression, then the value of x is d) $\frac{a_1}{a_2} = \frac{b_1}{b_2}$ a) 28 b) 16 c) 7 d) 8 The standard form of quadratic equation is : 3. a) $ax^2-bx + c = 0$ b) $ax^2 + bx + c = 0$ c) $ax^2-bx-c = 0$ d) $ax^2 + bx-c = 0$ 4. Sin $(90 - \theta)$ is equal to : a) Cos θ b) tan θ c) Sec θd)Cot θ 5. In the given graph. The co-ordinate of point A is a) (-1, 0)b) (1, -1) c) (0, 2)d(2, 0)II. Answer the following questions : 5x1=5 6. In equation x + y = 7, if x = 3, then find the value of y? (x_1, y_1) 7. In the given figure "P" is a midpoint of BC; write the formula to find the coordinate of P? 8. Write the measure of angle formed between tangent to a circle and radius drawn from the centre of the circle to the point of contact of the tangent. 9. In an arithmetic progression if $a_n = 3n - 2$, then find the second term of the progression. $\begin{array}{c} \mathbf{B} \swarrow \\ (x_2, \mathbf{y}_2) \end{array}$ 10. If $15 \cot A = 8$, then, find the value of tan A? III. Answer the following questions. 8x2=16 11. Find the sum of $5 + 8 + 11 + \dots$ to 10 terms using the formula. 12. Find the 25th term of an arithmetic progression 2, 6, 10, 14, 13. Solve the following pair of linear equations : x + y = 5, 2x - 3y = 414. Find the distance between the points (-5, 7) and (-1, 3)Or Find the coordinates of the point which divides the join of (-1, 7) and (4, -3) in the ratio 2: 3. 15. Draw a line segment of AB=8cm and divide it in the ratio 3:2 by geometrical construction. 16. Solve by using quadratic formula : $2x^2 - 7x + 3 = 0$ Or Solve the equation by factorisation: $x^2 - 3x - 10 = 0$ 17. Find the discriminant of the equation $3x^2 - 5x + 2 = 0$ and hence write the nature of its roots. 18. In $\triangle ABC$ right angled at B, AB = 24 cm, BC = 7 cm. Determines in A and cos A IV. Answer the following questions. 5x3=15 19. Prove that "The tangent at any point of a circle is perpendicular to the radius through the point of contact".

GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI

Four choices are given for each of incomplete / statement / questions. Choose the correct answer

PAPER-2

APRIL 2020-21

Or

CLASS: 10th

SUBJECT: MATHS

I.

Prove that the perpendicular at the point of contact to the tangent to a circle passes through the centre.

20. Find the area of triangle whose vertices are (2, 3), (-1, 0) and (2, -4).

MARKS: 50

TIME: 2:00 hr

 (x_{2}, y_{2})

- 21. Construct a triangle with sides 4cm, 5cm, and 6cm and then another triangle whose sides are $\frac{5}{3}$ of the corresponding sides of the first triangle.
- 22. A class teacher has the following absentee record of 40 students of a class for the whole term. Find the mean number of days a student was absent.

Number of days	0 - 6	6 - 10	10 - 14	14 - 20	20 - 28	28 - 38	38 - 40
Number of absent	11	10	7	4	4	3	1

Find the median for the following frequency distribution.

CI	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75
f	2	3	8	6	6	3	2

23. Draw a less than type ogive for the given data. Hence obtain the median weight from the graph and verify the result by using the formula.

Production yield (in kg/ha)	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80
Number of farms	2	8	12	24	38	16

Change the distribution to a more than type distribution, and draw its ogive.

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

x + y = 7,

3x - y = 2

1x5=5

1x4=8

Answer the following 25. State and prove "Pythagoras theorem"

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VI.



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GOVEI	RNMENT URDU HIGH SCHOOL, KEF	REBILCHI
CLASS: 10 th	PAPER -3	MARKS: 50
SUBJECT: MATHS	APRIL 2020-21	TIME: 2:00 hr
I. Four choices are given	for each of incomplete / statement / ques	stions.Choose the correct answer
and write the complete	e answer along withits letter of alphabet.	5x1=5
1. If the <i>nth</i> term of an arithm a)-25b) 5 c) -5d) 23	metic progression $a_n = 3n - 2$, then its 9 th to 5	erm is
2. The system of equation	as $kx - y = 2$ and $6x - 2y = 3$ has a unique	e solution when:
a) $k = 0$ (b) $k \neq 0$ c	$k = 3d k \neq 3$	
	he point (x, y) and the origin is $\sqrt{2}$	
	$\frac{x^4 - y^4}{x^2 - y^4}$ c) $\sqrt{x^2 + y^2}$ d) $\sqrt{x^2 + y^4}$	
4. The value of $\sec^2 26^\circ - t$		
a) $\frac{1}{2}$ b) 0 c) 2 c		
•	onsecutive positive integers is 30." This can	
	b) x (x-2) = 30c) x (x-3) = 30	
II. Answer the following of	-	5x1=5
6. State Pythagoras theore		
 7. Find the median of 2, 3 8. Find the value of tan 45° 	2, 2, 5, 6, 9, 10, 12, 16, 18 and 20.	
	ion, if $a_n = 2n + 1$, then find the common di	fference
	ave the pair of linear equations $2x + 3y - 9$	
III. Answer the following o		8x2=16
11. Find the sum of first tw	venty terms of Arithmetic series $2 + 7 + 12$	+ using suitable formula.
12. Which term of the AP,	8, 3, -2 is 78?	
13. Solve the following pai	r of linear equations :	
x + y = 14,		
x - y = 4		
14. The distance between the	he points $(3, 1)$ and $(0, x)$ is 5 units. Find x	
Or		
	f the mid-point of the line segment joining the p	
	to a circle of radius 4cm which are incline	ed to each other at an angle of 70°
and write the measure of	•	
	ic formula : $2x^2 + x - 4 = 0$	
	the quadratic equation $2x^2 + kx + 3 =$	0, so that they have two equal
roots. Or		
	t of the equation $2x^2 - 5x - 1 = 0$ and he	ence write the nature of its roots.
18. Evaluate $2tan^2 45^\circ + 10^{10}$		
IV. Answer the following of	questions.	5x3=15
19. Prove that "The lengths	s of tangents drawn from an external point t	to a circle are equal ".
Or		
Prove that "The tange	ent at any point of a circle is perpendicular.	to the radius through the point of

Prove that "The tangent at any point of a circle is perpendicular to the radius through the point of contact".

- 20. The points A(1, 1), B(3, 2) and C(5, 3) cannot be the vertices of the triangle ABC. Justify.
- 21. Construct a triangle ABC of its sides BC=4cm, AB=6cm and AC=4.5cm then construct a triangle similar to it, whose sides are $\frac{2}{3}$ of the corresponding sides of the triangle ABC.
- 22. Find the median for the following data in the frequency distribution table :

Weight (in kg)	15-20	20-25	25-30	30-35	35-40
Number of students	2	3	6	4	5

Find the mode for the following data in the frequency distribution table

Family size	1-3	3-5	5-7	7-9	9-11
Number of families	7	8	2	2	1

23. During the medical check-up of 35 students of a class, their weights were recorded as follows. Draw a 'less than type ogive' for the given data.

Number of students
0
3
5
9
14
28
32
35

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method. 2x + y = 8,

VI. Answer the following

25. Prove that "If in two triangles, corresponding angles are equal, then their corresponding sides are in the same ratio (or proportion) and hence the two triangles are similar".

x - y = 1

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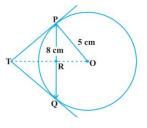
1x4=4

GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI

_	NMENT URDU HIGH SCHOOL, KEF	REBILCHI
CLASS: 10 th	PAPER-4	MARKS: 50
SUBJECT: MATHS	APRIL 2020-21	TIME: 2:00 hr
I. Four choices are given f	for each of incomplete / statement / que	stions.Choose the correct answer
-	answer along withits letter of alphabet.	5x1=5
1. Next term of the AP: 9,		
	(b) 17(c) 18(d) 19	
2. A straight line passing throad a) a tangent b) a secar	0 1	
, ,	, , , ,	migue solution is
	h kx + 2y = 5 and $3x + y = 1$ have u $x \neq 6c$) $k = 6$ d) $k = 2$	inique solution, is.
	equation $ax^2 + bx + c = 0$, where $a \neq 0$	
	$+ 4bc$ c) $a^2 - 4bcd)b^2 + 4bc$	
5. The value of sin 30° + co		O
a) $\frac{1}{2}$ b) $\frac{3}{2}$ c) $\frac{1}{4}$ d) $\frac{1}{4}$		X
II. Answer the following qu		5x1=5
6. State Pythagoras theorem		541-5
; e	the line segment joining the points $A(x_1, y_2)$) and $B(x_2, y_2)$ in the ratio k: 1
then write the coordinate		
8. $2, x, 14$ are in Arithmetic	c progression, then find the value of x	Y
9. If system of equations a	$a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$	= 0 has infinitely many
solutions, then write the		
10. Write mode of 1, 0, 2, 2,		
III. Answer the following qu		8x2=16
	terms of an AP is 1050 and its first term i	is 10, find the 20th term.
	30 positive integers divisible by 6.	
13. Solve the following pair $r = 0$	of linear equations :	
$\begin{array}{l} x + y = 8, \\ 2x - y = 7 \end{array}$		
5	the point which divides the line joining the	e points $(1, 6)$ and $(4, 3)$ in the
ratio 1 : 2.	the point which divides the fine joining the	
Or		
	2) and $(2, -3)$, respectively, find the coord	dinates of P such that $AP =$
$\frac{3}{7}$ AB and P lies on the		
	circle of radius 5cm such that the angle be	tween the
tangents is 60°.	c formula : $4x^2 + 4\sqrt{3}x + 3 = 0$	θ
	the quadratic equation $kx(x-2) + 6 =$	0 so that ^{12cm} 13cm
they have two equal root		o , so that
Or		
Find the discriminant	of the equation $2x^2 - 4x + 3 = 0$ and here	nce write the \neg
nature of its roots.	-	$Q \xrightarrow{free} 5 cm R$
18. In the figure given below	<i>w</i> find the value of $sin\theta$ and \propto ?	
IV. Answer the following qu	uestions.	5x3=15
-	at any point of a circle is perpendicular to	the radius through the point of
contact".		

Or

PQ is a chord of length 8 cm of a circle of radius 5 cm. The tangents at P and Q intersect at a point T. Find the length TP.



20. Find the area of a triangle whose vertices are (1, -1), (-4, 6) and (-3, -5).

21. Draw a right triangle in which the sides (other than hypotenuse) are of

lengths 4 cm and 3 cm. Then construct another triangle whose sides are $\frac{5}{3}$ times the corresponding sides of the given triangle.

22. Calculate the 'mean' for the frequency distribution table given below, by direct method.

Classinternal	5-15	15-25	25-35	35-45	45-55
Frequency	4	3	6	5	2
0.					

Or

The following table shows the ages of the patients admitted in a hospital during a year: Find the mode

Age (in years)	5 - 15	15 - 25	25 - 35	35 - 45	45 - 55	55 - 65
Number of patients	6	11	21	23	14	5

23. The following table gives the production yield per hectare of wheat of 100 farms of a village. Draw a 'more than type ogive' for the given data.

Production yield in kg/hectare	Cumulative
	Frequency
More than or equal to 50	100
More than or equal to 55	98
More than or equal to 60	90
More than or equal to 65	78
More than or equal to 70	54
More than or equal to 75	16

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

2x + y = 6,

2x - y = 2VI. Answer the following

25. Prove that "The ratio of the areasof two similar triangles is equal to thesquare of the ratio of their corresponding sides".

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1x4=4

GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI

CLASS: 10th **SUBJECT: MATHS**

PAPER-5 **APRIL 2020-21**

Four choices are given for each of incomplete / statement / questions. Choose the correct answer I. and write the complete answer along withits letter of alphabet. 5x1=5

- 1. The fifteenth term of the AP: -23, -19, -15, ... is: (a) 30(b) 31 (d) 33 (c) 32
- 2. In the following figure, PA, PC and CD are tangents drawn to a circle ofcentre O. If AP = 3 cm, CD = 5 cm, then the length of PC is: a) 3 cm b) 5 cm c) 8 cm d) 2 cm
- 3. The pair of equations 3x + 2y = 5, 2x 3y = 7 has: a) Nosolution (b) onesolution c) many solutions d) twosolutions
- 4. If the roots of a quadratic equation are equal, then the discriminantis: (a) 1(b) 0(c) greater than 0 (d) less than 0
- 5. The value of $cos 48^\circ$ $sin 42^\circ$ is
 - c) $\frac{1}{2}$ d) 1 (b) $\frac{1}{4}$ a) 0

II. Answer the following questions :

- 6. Write the formula to find the sum of the first *n* terms of an Arithmeticprogression, whose first term is *a* and the last term, is a_n .
- 7. The value of k for which the system of equation 2x + 3y = 5 & 4x + ky = 10 has an infinite number of solutions.
- 8. Write value of the discriminant of the quadratic equation $ax^2 + bx + c = 0$.
- 9. A tangent PQ at a point P of a circle of radius 5cm meets a line through the centre O at a point Q so that OQ = 12cm. Find length PQ.
- 10. Find the distance of point (-6, 8) from the origin.

III. Answer the following questions.

- 11. Find the sum of 2+5+8+..... Up to 20 terms using the suitable formula.
- 12. In an AP 3, 8, 13 ... 253 find 20th term from last.
- 13. Solve the following pair of linear equations :

2x + 3y = 11, 2x - 4y = -24

14. Find the values of y in which the distance between the points P(2, -3) and Q(10, y) is 10 units. Or

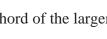
Find the distance between the co-ordinate of the points A (2, 3) and B (10, -3).

- 15. Draw a circle of radius 4cm and to it draw tangents through the end points of the radii if the angle between the radii is 80°.
- 16. Solve by using quadratic formula : $2x^2 + x + 4 = 0$ Or
 - Solve by factorisation method $5x^2 6x 2 = 0$
- 17. Find the discriminant of the quadratic equation $3x^2 2x + \frac{1}{3} = 0$ and hence write the nature of roots.
- 18. In the given figure, find the value of $\sin \propto + \cos \theta$?

Answer the following questions. IV.

19. Prove that "The lengths of tangents drawn from an external point to a circle are equal". Or

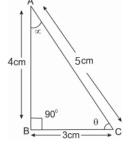
Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.



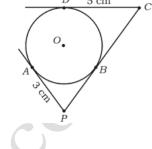
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8x2=16

5x1=5



5x3=15



D

5 cm

MARKS: 50

TIME: 2:00 hr

- 20. The vertices of a $\triangle ABC$ are A(-5, -1), B(3, -5), C(5, 2). Show that the area of the $\triangle ABC$ is four times the area of the triangle formed by joining the mid-points of the sides of the triangle *ABC*
- 21. Construct a triangle with sides 5 cm, 6 cm and 7 cm and then another triangle whose sides are $\frac{7}{5}$ of the corresponding sides of the first triangle.
- 22. Find the median of the data.

 	leanan or	me aata.						
CI	65 - 85	85-105	105 - 125	125 - 145	145 - 165	165 - 185	185 - 205	
f	4	5	13	20	14	8	4	

Find the mode of the following data

		0				
Class interval	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50)
Frequency	6	9	15	9	1	N=40

23. The following table gives the information of daily income of 50 workers of a factory. Draw a 'less than type ogive' for the given data

Daily Income	Number of workers
Less than 100	0
Less than 120	8
Less than 140	20
Less than 160	34
Less than 180	44
Less than 200	50

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

2x + y = 10,x + y = 6

VI. Answer the following

25. State and prove basic proportionality theorem.

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1x4=4

GOVERNMENT URDU HIGH SCHOOL KEREBILCHI

	GOVERNM	MENT URDU	HIGH SCHOOL	L, KEREBILC	HI
CLASS: 10	0 th	PA	APER-6		MARKS: 50
SUBJECT: MATHS	5	APRIL 2020	0-21		TIME: 2:00 hr
I. Four choices	are given for	each of incom	plete / statement	t / questions.Cl	noose the correct answer
and write the 1. If the 1^{st} term tenth term is (a) $m + 10n$ (b	of an AP is <i>m</i>	and common o	thits letter of alpled difference is n , the (d) $2m + 9$		
2. $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$			(u) 2m + 3		
a) Intersec	tinglines (t	o) Parallellines	c) Coincidentline	es d) N	Ione of these
3. The value of ta a) 5 b) $\sqrt{3}$	$n^{2}60^{\circ} + 2 \tan^{2} + 1 = c) 4$		+ 2		0
4. The number of	,	,			
(a)Exactlyt 5. In the given fi $\angle POQ = 110$ (a) 60°	igure, if TP and	nd <i>TQ</i> are the tw <i>Q</i> is equal to	(c) Atleasttwo tangents to a cir (d) 90°		
II. Answer the fo	ollowing ques	stions :	6	4x1=4	
6. State Pythagor					
7. Write the dista		(2, 3) from the	x-axis.		
8. Find the medi					
9. Write the discri					
			r equations $2x + 3$	3y + 9 = 0 and	4x + 6y - 18 = 0?
III. Answer the fe	ollowing ques	stions.			8x2=16
11. How many term	ns of the AP: 24	4, 21, 18 mu	st be taken so that t	heir sum is 78?	
12. How many the	ree-digit numł	pers are divisib	le by 7?		
13. Solve the follo	01	linear equation	s :		
2x + y =					
x + y =					
14. Find the dist	tance between (origin and the po	int Or		
Find the co	ordinates of a	point A, where	e AB is the diamet	ter of a circle w	hose centre is
(2, -3) and	l B is (1, 4).				
15. Drawa circle o	of radius 3 cm	. Take two poin	nts P and Q on one	e of its extended	d diameter each at a
distance of 7 c	em from its ce	ntre. Draw tang	gents to the circle	from these two	points P and Q
16. Solve by using	g quadratic for	rmula : $x^2 - 2x^2$	x + 3 = 0		
Or					
Solve by fa	x intervalue to the set of the	$x^{2} + 7x + 12$	= 0		
17. Find the natur	e of the roots	of the quadration	c equation $4x^2$ –	4x + 1 = 0.	
18. If sin $A = \frac{3}{4}$, c			•		
IV. Answer the f					5x3=15
19. Prove that "Th			ircle is perpendicu	lar to the	C.
radius through	-	• •	r r r		D
Or	point of t				
		awn to circums	scribe a circle. Pro	ove that	S A P R
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- 20. Find the area of triangle ABC, whose co-ordinates are A(4, -6), B(3, -2) and C(5, 2) then find the length of the median AD?
- 21. Construct an isosceles triangle whose base is 8 cm and altitude 4 cm and then another triangle whose sides are $1\frac{1}{2}$ times the corresponding sides of the isosceles triangle.
- 22. Find the mean of the following data, by direct method

Class interval	1 - 5	5 - 9	9 - 13	13 - 17	17 - 21	
Frequency	4	3	5	7	1	N=20
Or						

The following distribution gives the state-wise teacher-student ratio in higher secondary schools of India. Find the mode.

Number of	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
students per								
teacher								
Number of	3	8	9	10	3	0	0	2
states / U.T.								

23. The following table gives production yield per hectare of wheat of 100 farms of a village.

Production yield in kg/hectare	50-55	55-60	60-65	65-70	70-75	75-80
Number of farms	2	8	12	24	38	16

Change the distribution to a more than type distribution, and draw its ogive.

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

x + y = 5,

2x - y = 4

VI. Answer the following

25. Prove that "In a right-angled triangle square of the hypotenuse is equal to sum of the squares on the other two sides".

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1x4=4

GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI CLASS: 10th PAPER-7 MARKS: 50 **SUBJECT: MATHS APRIL 2020-21 TIME: 2:00 hr** Four choices are given for each of incomplete / statement / questions. Choose the correct answer I. and write the complete answer along withits letter of alphabet. 5x1=5 1. The *n*th term of an arithmetic progression is $a_n = 4n + 5$ then the 3rd term is a) 17 b) 12 c) 8 d) 9 2. The sum of first *n* natural numbersis: $(b)\frac{n(n^2+1)}{2}$ $(a)\frac{n(n+1)}{2}$ (c)n + 1(d) n^2 3. The value oftan 45° is c) 1 d) $\frac{1}{\sqrt{2}}$ a) $\sqrt{3}$ b) 0 4. For a pair of equation to be consistent and dependent, the pair musthave: a) nosolution (b) unique solution c) infinitely many solutions d) none of these 5. If the roots of $ax^2+bx+c=0$ be equal, then the value of *c* is (a) $\frac{-b}{2a}$ (b) $\frac{b}{2a}$ (c) $\frac{-b^2}{4a}$ (d) $\frac{b^2}{4a}$ Answer the following questions : II. 5x1=5 6. Find the value of cosec 70 $^{\circ}$ – sec20 $^{\circ}$. 7. Find the coordinates of the midpoint of the line segment joining the points (6, 2) and (4, 4). 8. The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4cm. Find the radius of the circle. 9. How many solutions have the pair of linear equations x + 3y - 9 = 0 and 4x + 6y - 18 = 0? 10. State the converse of Pythagoras theorem. III. Answer the following questions. 8x2=16 11. In an AP -3, $-\frac{1}{2}$, 2,....find 11th term-12. Which term of the AP 21, 18, 15 ... is -81? 13. Solve the following pair of linear equations : x + y = 5,2x - 3y = 514. Find the point on the x-axis which is equidistant from (2, -5) and (-2, 9). Or In what ratio does the point (-4, 6) divide the line segment joining the points A (-6, 10) and B (3, -8)?15. Draw a line segment AB of length 8 cm. Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm. Construct tangents to each circle from the centre of the other circle. 16. Solve by using quadratic formula : $5x^2 - 6x - 2 = 0$ 17. Find the discriminant of the quadratic equation $2x^2-6x + 3 = 0$ and hence write the nature of roots Or Find the nature of the roots of the quadratic equation $3x^2 - 5x + 2 = 0$ 18. Given 15 cot A = 8, finds in A and sec A Answer the following questions. IV. 5x3=15 19. Prove that "The lengths of tangents drawn from an external point to a circle are equal".

Or

Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line-segment joining the points of contact at the centre.

20. Find the area of the triangle formed by the points P(-1.5, 3), Q(6, -2) and R(-3, 4). Or

Find the area of the quadrilateral whose vertices, taken in order, are (-4, -2), (-3, -5), (3, -2) and (2, 3).

- 21. Draw a triangle ABC with side BC = 6 cm, AB = 5 cm and $\angle ABC = 60^{\circ}$. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of the triangle ABC.
- 22. Find the median of the following data :

Class interval	20 - 40	40 - 60	60 - 80	80 - 100
Frequency	7	15	20	8

Or

Find the 'mode' of the frequency distribution table given below.

1					
Class interval	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
Frequency	7	9	15	11	8

23. The following table gives the production yield per hectare of wheat of 100 farms of a village. Draw a 'more than type ogive' for the given data.

Production yield in kg/hectare	Cumulative Frequency
More than or equal to 50	100
More than or equal to 55	98
More than or equal to 60	90
More than or equal to 65	78
More than or equal to 70	54
More than or equal to 75	16

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

y = 2x + 1,

x = 2y - 5

VI. Answer the following

25. Prove that "The ratio of the areasof two similar triangles is equal to thesquare of the ratio of their corresponding sides".

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1x4=4

	GOVE	RNMENT URDU HIGH SCHOOL, KE	REBILCHI
	CLASS: 10 th	PAPER-8	MARKS: 50
SUBJ	ECT: MATHS	APRIL 2020-21	TIME: 2:00 hr
I.	Four choices are given	for each of incomplete / statement / que	estions.Choose the correct answer
	and write the complete	e answer along withits letter of alphabet	. 5x1=5
	1. The formula to find t	he sum of the first <i>n</i> terms of an Arithmetic	cprogression, whose first term is
	a and the last term isa		
	-	$S_n = \frac{n}{2}(a+d)$ C) $a_n = a(n+1) + d$	-
		nship between the three measures of centr	al tendency is :
	a) 2 Median = Mode b) 3 Median = Mode		
	c) Median = Mode $+$		
	d)Median = Mode - N		
		x + y = 5, we have value of y as:	
		c) 3 d) 4	K, •
		oint p(4, 3) from the <i>x</i> - axis is : units c) 4 units	d) 5 units
		ecting a circle at two distinct points is calle	
			a normal
		,G	
II.	Answer the following of6. State 'Thale's theorem	-	5x1=5
	 State Thate's theorem Find the value of <i>tan</i> 		
		uation whose roots are a and $\frac{1}{a}$.	
		les the line segment joining the points $A(x)$	(v_1) and $B(v_2, v_2)$ in the ratio
		e coordinates of the point <i>P</i> .	$[y_1, y_1]$ and $D(x_2, y_2)$ in the ratio
		12x + 3y = 5 and $10x + 15y = 2k$ represented by the second se	esents two coincident lines then
	find the value of k.	. 0.	
III.	Answer the following o	questions.	8x2=16
	11. Find the sum of the A	AP 8, 3, -2, Upto 22 terms.	
	12. In an AP 21, 18, 15		
	13. Find the value of k , if	f the pair of linear equations $2x - 3y = 8$	3 and 2(k-4)x - ky = k + 3
	are inconsistent.		
	14. Check whether $(5, -2)$	2), $(6, 4)$ and $(7, -2)$ are the vertices of an	isosceles triangle.
	Or		
		of the points of trisection of the line segm	
		o a circle of radius 4 cm from a point on the	
		h. Also verify the measurement by actual	calculation.
G		ratic formula : $x(x+1) = 6x + 24$	
		e roots of the quadratic equation $x^2 - 4x$	+4=0
	Or Eind the values of k f	For the quadratic equation $2x^2 - kx + 3 =$	0 so that they have two equal
	roots.	of the quadratic equation $2x - kx + 5 =$	o, so that they have two equal
		- 18°), where 2A is an acute angle, find the	ne value of A.
IV.	Answer the following o		5x3=15
	19. Prove that "The tange	ent at any point of a circle is perpendicular	r to the radius through the point of
	contact".		
	Or		

Prove that the parallelogram circumscribing a circle is a rhombus.

- 20. Find the value of 'k', for which the points A(2, 3), B(4, k) and C(6, -3)are collinear.
- 21. Draw a triangle ABC with side BC = 7 cm, $\angle B = 45^\circ$, $\angle A = 105^\circ$. Then, construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of $\triangle ABC$.
- 22. Calculate the 'mean' for the frequency distribution table given below, by direct method.

Class internal	5-15	15-25	25-35	35-45	45-55
Frequency	4	3	6	5	2

Calculate the median of the following frequency distribution table:

Class-interval	1 - 4	4 - 7	7 - 10	10 - 13	13 - 16	16 - 19
Frequency(fi)	6	30	40	16	4	4

23. Draw a "less than type ogive" for the data given in the following table.

Class internal	0 - 10	10-20	20-30	30-40	40-50
Frequency	2	12	2	4	3

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method.

$$2x + y = 3,$$

x + 3y = -1

VI. Answer the following

25. Prove that "If in two triangles, corresponding angles are equal, then their corresponding sides are in the same ratio (or proportion) and hence the two triangles are similar"

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1x4=4

GOVERNMENT URDU HIGH SCHOOL, KEREBILCHI CLASS: 10th PAPER -9 **MARKS: 50 SUBJECT: MATHS APRIL 2020-21 TIME: 2:00 hr** Four choices are given for each of incomplete / statement / questions. Choose the correct answer I. and write the complete answer along withits letter of alphabet. 5x1=51. If the *nth* term of an arithmetic progression $a_n = 3n - 2$, then its 9th term is a) -25 b) 5 c) -5 d) 25 2. The system of equations kx - y = 2 and 6x - 2y = 3 has a unique solution when: a) k = 0 (b) $k \neq 0$ c) k = 3 d) $k \neq 3$ 3. The distance between the points (x, y) and the origin is a) $\sqrt{x^2 - y^2}$ b) $\sqrt{x^4 - y^4}$ c) $\sqrt{x^2 + y^2}$ d) $\sqrt{x^2 + y^4}$ 4. The standard form of quadratic equation is : c) $ax^2-bx-c = 0$ d) $ax^2 + bx-c = 0$ a) $ax^2-bx + c = 0$ b) $ax^2 + bx + c = 0$ 5. The value of $\sec^2 26^\circ - \tan^2 26^\circ$ is a) $\frac{1}{2}$ b) 0 c) 2 d) 1 II. Answer the following questions : 5x1=5 6. In equation x + y = 7, if x = 3, then find the value of y? (x_1, y_1) 7. In the given figure "P" is a midpoint of BC; write the formula to find the coordinate of P? 8. Write the measure of angle formed between tangent to a circle and radius drawn from the centre of the circle to the point of contact of the tangent. 9. In an arithmetic progression if $a_n = 3n - 2$, then find the second term of $\mathbf{B}_{(x_2, \mathbf{y}_2)}$ the progression. 10. If $15 \cot A = 8$, then, find the value of tan A? III. Answer the following questions. 8x2=16 11. Find the sum of first twenty terms of Arithmetic series $2 + 7 + 12 + \dots$ using suitable formula. 12. Which term of the AP, 8, 3, -2... is 78? 13. Solve the following pair of linear equations : x + y = 14,x - y = 414. The distance between the points (3, 1) and (0, x) is 5 units. Find x Or Find the coordinates of the mid-point of the line segment joining the points (2, 3) and (4, 7). 15. Draw a pair of tangents to a circle of radius 4cm which are inclined to each other at an angle of 70° and write the measure of its length. 16. Solve by using quadratic formula : $2x^2 + x - 4 = 0$ 17. Find the values of k for the quadratic equation $2x^2 + kx + 3 = 0$, so that they have two equal roots. Or Find the discriminant of the equation $2x^2 - 5x - 1 = 0$ and hence write the nature of its roots. 18. Evaluate $2tan^2 45^\circ + cos^2 30^\circ - sin^2 60^\circ$

IV. Answer the following questions.

- 19. Prove that "The lengths of tangents drawn from an external point to a circle are equal".
- 20. The points A(1, 1), B(3, 2) and C(5, 3) cannot be the vertices of the triangle ABC. Justify.
- 21. Construct a triangle ABC of its sides BC=4cm, AB=6cm and AC=4.5cm then construct a triangle similar to it, whose sides are $\frac{2}{2}$ of the corresponding sides of the triangle ABC.
- 22. Find the median for the following data in the frequency distribution table :

5x3=15

Weight (in kg)	15-20	20-25	25-30	30-35	35-40
Number of students	2	3	6	4	5

Find the mode for the following data in the frequency distribution table

Family size	1-3	3-5	5-7	7-9	9-11
Number of families	7	8	2	2	1

23. During the medical check-up of 35 students of a class, their weights were recorded as follows. Draw a 'less than type ogive' for the given data.

<i>71</i> 0	0
Weight (in kg)	Number of students
Less than 38	0
Less than 40	3
Less than 42	5
Less than 44	9
Less than 46	14
Less than 48	28
Less than 50	32
Less than 52	35

V. Answer the following

24. Find the solution of the following pair of linear equations by the graphical method. 2x + y = 8,

VI. Answer the following

25. Prove that "If in two triangles, corresponding angles are equal, then their corresponding sides are in the same ratio (or proportion) and hence the two triangles are similar".

 $\overline{x} - y = 1$

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1x4=4