·		1-39	K-390		
Sig. of Supdt	General General	KT-IX-1901 al Mathematics (9 <sup>th</sup> ) resh / Reappear	II No		
	**************************************		*******************		
e allowed: 3 Hrs  : There are three sect	Fions of the paper, A. B	Fic. No.  Al Mathematics (9 <sup>th</sup> )  resh / Reappear  & C. Carefully read the instructed in the control of the con	ctions for each section	Marks: 7	
e: 20 Mins	No. 1	Section "A"		Marks: 1	
Write the correct o erasing and over w	ption i.e. A, B, C or D riting will not be awarde	in the empty box provided o	opposite to each part	. Cutting,	
There are	types of sales ta	Kes.	: .	1	
<b>(A)</b> 3	B. 6	C. 9	D. 5		
(Rate) x (Sales) = -			٠.	72	
A. Income Tax	B. Commission	B Tax	D. Gross Income		
The number or qua	ntity that is written in th	e form of exponent is called	form.	(	
A. Radical	B. Logrithmic	© Exponential	D. Radicand	· i	
Arithmetic mean be	etween $6\sqrt{5}$ and $4\sqrt{5}$	is	•		
A. 6√5	B. 4√5	(C)10√5	D. 5√5	· <u>-</u>	
(A∪B) <sup>C</sup> =	-	Q <sub>C</sub>	2.545	Ţ.	
A. (A∩B) <sup>c</sup>	B, A <sup>C</sup> ∪B <sup>C</sup>	COACORC	D.B <sup>C</sup> ∪A <sup>C</sup>	<u>.</u>	
· · · ·	es inquadr	ant	D.B CA	. [	
A. 1 <sup>st</sup>	(B) 2 <sup>nd</sup>	C. 3 <sup>rd</sup>	D. 4 <sup>th</sup>	[]	
	value in the data is call	*0	<b>D.</b> 4	F	
A. GM	B. AM	C. Median	(D) Mode	L	
of t	wo ratios is called prop		7	Γ	
(A) Equality	B. Sum	C. Difference	D. Inequality	L.	
	5% is			[7	
A. 0.5	B. 0.05	©0.005	D. 0.0005	. ا د	
Ushr is payable on				. [	
A. Vegetable	B. Fruit	C. Crop	(D)All of these		
<del>-</del>		s. 365 then profit is	(1) 3. 1	Γ	
A. Rs. 35	(B) Rs. 45	C. Rs. 55	D. Rs. 60	. Ц	
	t received by			Γ	
(A)Bank	••	C. Government	D. None	<b>i</b>	
$\smile$	nge of currency is called		7	٠ . ٢	
6				h.,	
(A)Exchange Rate	B. Financing	C. Down Payment	D. Leasing		
		logarithms.	n na a sé	<u>[1</u>	
(A) Common		C. Natural	D. Both A and B	Г	
	ayment of zakat is	•	D 000	Ļ	
(A.)7.5gm	B. 52gm	C. 87gm	D. 609gm		

## KT-IX-1901

## General Mathematics (9th)

Fresh / Reappear

Time: 2 hours 40 minutes.

## Section "B"

Marks: 36

- Q.2 Attempt any NINE parts. All parts carry equal marks.
  - i. Simplify with the help of logarithm.

(238.2)(9.506)

- ii. Mr. Hashir bought a plot and paid a tax of Rs. 20,000 at the rate of 2%. Find value of the plot.
- iii. Find the value of "x" when 16:x :: x:9.
- iv. Ms. Neelam paid Rs. 4890 as zakat. She had Rs. 50,000 cash and some jewellery. Find the value of her jewellery.
- v. Find the loss when cost price is Rs. 900 and loss is 2%.
- vi. Convert he following currencles in Pakistani rupees when (1 dollar = Rs. 131 and 1 Euro = Rs. 112)
  - a. 1395 Euro
- b. 375 dollars
- vii. Find 12<sup>th</sup> term of the G.P 4, 8, 16, ...
- viii. Find the profit or loss percent when cost price is Rs. 760 and selling price is Rs. 885.

ix. Simplify 
$$\left(\frac{x^{2a}}{x^{a+b}}\right) \left(\frac{x^{2b}}{x^{b+c}}\right) \left(\frac{x^{2c}}{x^{c+a}}\right)$$

- x. Insert two arithmetic mean between 15 and 27.
- xi. Convert the following decimal fractions into percentages.
  - a. 021
- b. 0.007
- xii. Draw the graph of the equation x + 2y = 6.

## Section "C"

Marks: 24

Note: Attempt any THREE questions. All guestions carry equal marks.

Q.3 If 
$$\cup = \{1, 2, 3, 4,...,20\}$$
,  $A = \{2, 4, 6,...,20\}$ ,  $B = \{1, 3, 5,...,19\}$  and  $C = \{ \}$  then find i.  $A^{c} \cap B^{c}$ 

Q.4 Find the Harmonic Mean (HM) of the following data.

Q.5 Find mode for the following data.

C.I	10 – 14	15 19	20 – 24	25 29	30 – 34
f	1	3	7	12	2

Q.6 If A = {1, 2, 3, 4, 5, 8, 9} and B = {3, 4, 5, 6, 7} then verify by Venn diagram.

$$A \cap B = B \cap A$$