

P-391

KTIX-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 the following currencies in Pakistani rupees when (1 dollar = Rs. 131 and 1 Euro = Rs. 112)
a. 1395 Euro b. 375 dollars
- vii. Find 12th 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. 0.21 b. 0.007
- xii. Draw the graph of the equation $x + 2y = 6$.

Section "C"

Marks: 24

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

Q.3 If $U = \{1, 2, 3, 4, \dots, 20\}$, $A = \{2, 4, 6, \dots, 20\}$, $B = \{1, 3, 5, \dots, 19\}$ and $C = \{ \}$ then find

i. $A^c \cap B^c$

ii. $B^c \cup C^c$

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

5, 6, 8, 9, 10

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.

$A \cap B = B \cap A$

www.ilmkidunya.com