

SECTION – I

2- Attempt any six parts. (6 x 2 = 12)

i	Find the 36% of Rs. 145000.	ii	What is meant by ratio?
iii	What is the ratio of 1 Kg to 900 grams?	iv	What mean by Ushr?
v	Find the amount of Zakat on an amount Rs. 400000.	vi	Find Ushr on a rice crop produced by natural resources amounting to Rs. 70000.
vii	What is the sale price?	viii	What is discount?
ix	The Marked price of a shaving cream is Rs. 185. If its sale price is Rs. 175. Find the discount.		

3- Attempt any six parts. (6 x 2 = 12)

i	Define crossed cheque.	ii	Define Interest / Markup.
iii	Define Insurer.	iv	Define direct tax.
v	Define personal income.	vi	Define home take salary.
vii	Simplify $(x^{m/4} y^{n/3})^{-1/2}$	viii	Write the following in scientific notation 0.0000136
ix	Find the value of x from the following statement $\log_x 784 = 2$		

4- Attempt any six parts. (6 x 2 = 12)

i	If $a_{n-1} = 2n - 3$, find a_n	ii	Which term of the sequence -6, -2, 2, ... is 70?
iii	Define prime numbers.	iv	If $A = \{1, 2, 3\}$, $B = \{a, b\}$, then find $A \times B$ and $B \times A$
v	Define Cartesian plane or Rectangular.	vi	Draw the graph of $y = 2x$.
vii	Define Histogram.	viii	The grades of a student in seven examinations are 60, 65, 76, 40, 51, 46, 80. Find the arithmetic mean of the grades.
ix	Define Median.		

SECTION – II

Note:- Attempt any three questions. (8 x 3 = 24)

- 5- a) If 8 pumps raise 112 litres of water in 10 minutes. How long will 4 pumps take to raise 98 litres of water? (04)
- b) A deceased person left a widow, a son and two daughters. Calculate the share of each, if the wealth left by him amounts to Rs. 64,00,000. (04)
- 6- a) The marked price of a refrigerator is Rs. 45000. If the percentage discount is 6%, find the sale price of refrigerator. (04)
- b) If the simple profit on Rs. 16,400 for 12 years is Rs. 3000. Find the rate of profit. (04)
- 7- a) The gas meter reading shows that 5.872 Hm^3 gas was used during a month. Work out the payable amount inclusive of GST @ 17%. (04)
- b) Simplify $\left(\frac{x^q}{x^r}\right)^{q+r-p} \times \left(\frac{x^r}{x^p}\right)^{r+p-q} \times \left(\frac{x^p}{x^q}\right)^{p+q-r}$; $x \neq 0$ (04)
- 8- a) If G.M. between a and 8 is 44, find a (04)
- b) If $A = \{1,2,3,4,5\}$, $B = \{1,3,5,7,9\}$ and $C = \{2,4,6,8,10\}$. Verify that $(A \cap B) \cap C = A \cap (B \cap C)$ (04)
- 9- a) Draw the graph of $y = x + 3$ (04)
- b) Find the mean and median of the data 0, 1, 1, 4, 4, 6, 8, 5, 8, 9, 10, 8. (04)

(The End)