

For preparation

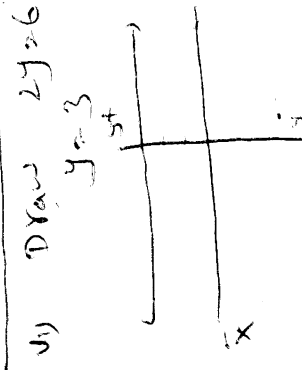
SUBJECT: Statistics EXAM H SSC and A 2022 CLASS: 9 (am I)
 GROUP: Commerce DATE: _____

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Section B Short Answer

Q2I Amount = 1500
 Ratio 2:4:6
 Sum of ratio = $2+4+6=12$
 1st ratio = $\frac{2}{12} \times 1500 = 250$
 2nd ratio = $\frac{4}{12} \times 1500 = 500$
 3rd ratio = $\frac{6}{12} \times 1500 = 750$
 (i) Commission = $\frac{\text{Amount} \times 24}{100}$
 $= \frac{1500 \times 24}{100} = 360$
 Commission = $\frac{1000 \times 6}{100} = 60$
 Total Commission = 750 + 60 = 810

(ii) $3x + 5 = 8$
 $3x = 8 - 5$
 $3x = 3$
 $x = 1$



(iv) $2x^2 + 9x + 10 = 0$
 $2x^2 + 5x + 4x + 10 = 0$
 $x(2x+5) + 2(2x+5) = 0$
 $(2x+5)(x+2) = 0$
 $x = -5/2, x = -2$

(v) $2x^2 + 3x - 6 = 0$
 $2x^2 - 3x + 6x - 6 = 0$
 $Sum of Ratio = \frac{-b}{a} = \frac{-3}{2} = -\frac{3}{2}$
 $Product of Ratio = \frac{c}{a} = \frac{-6}{2} = -3$

Q3) Short Answer
 (i) $y = 5x + 9$
 For x intercept $y = 0$
 $0 = 5x + 9$
 $x = -9/5$
 For y-intercept $x = 0$
 $y = 9$

(ii) Find Sum of $(111)_2$ and $(10)_2$

$$\begin{array}{r} 111 \\ + 10 \\ \hline 1001 \end{array}$$
 Ans $(1001)_2$

(iii) Solve $(1101)_2 - (11)_2$

$$\begin{array}{r} 1101 \\ - 11 \\ \hline (1010)_2 \end{array}$$

(iv) $(101)_2 \times (11)_2$

$$\begin{array}{r} 101 \\ \times 11 \\ \hline 101x \\ 101x \\ \hline (1111)_2 \end{array}$$
 Ans $\begin{array}{r} 2x=1 \\ 2x=3 \\ x=2 \end{array}$

(v) If $A = \begin{bmatrix} 4 & 3 \\ 1 & 6 \end{bmatrix}$
 $|A| = \begin{vmatrix} 4 & 3 \\ 1 & 6 \end{vmatrix} = 24 - 3 = 21$
 $A^{-1} = \frac{1}{21} \begin{bmatrix} 6 & -3 \\ -1 & 4 \end{bmatrix}$

PREPARED BY

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	Sahil Anwar	Instructor	GEC Sahial	0300-6938754	Sahil
2					

RE-CHECKED BY

تم نے درج بالا سوال پر چ (انتخابی + معروفی) اور ہدایات کے حوالے سے مکمل طور پر تکی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	M. Nudgasser (cel)		GEC Sahial	0306930405	Nr
2					