

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHRAWAL

12. Mathematics

SUBJECT: ~~Mathematics~~ EXAM HSSC 9th A 2022 CLASS: 9 (Unit)

GROUP: Commerce DATE: _____

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Q6(a) If $A = \begin{bmatrix} 2 & 1 \\ 3 & -1 \end{bmatrix}$ find inverse of A

$$A^{-1} = \frac{\text{Adj of } A}{|A|}$$

$$|A| = \begin{vmatrix} 2 & 1 \\ 3 & -1 \end{vmatrix} = -2 - 3 = -5$$

$$\text{Adj of } A = \begin{bmatrix} -1 & -1 \\ -3 & 2 \end{bmatrix}$$

$$A^{-1} = \frac{1}{-5} \begin{bmatrix} -1 & -1 \\ -3 & 2 \end{bmatrix} = \begin{bmatrix} \frac{1}{5} & \frac{1}{5} \\ \frac{3}{5} & -\frac{2}{5} \end{bmatrix}$$

Q6(b) multiply $(11011)_2$ by $(1101)_2$

$$11011$$

$$1101$$

x

$$\begin{array}{r} 11011 \\ 00000 \times \\ 11011 \times \\ 11011 \times \\ 101011 \times \times \end{array}$$

$$101011111$$

$$(101011111)_2$$

PREPARED BY

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

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