

ASSIGNMENT # 03

Summer-2020

Program: B.B.A

Course Title: BASIC Mathematics

Dated: 28th September, 2020

Instructor : Raza Ahmed Khan

Total marks: 50

Important Instructions:

- Assignment should be submitted within 4-hours
- Submitted Document's format should be in word, pdf or in jpg.
- No Assignment will be accepted after due date mentioned above.
- Attempt All Questions

Question No: 01

(4+3+6)

- Divide $x^3 + 6x^2 + 11x + 6$ by $(x + 3)$ (long division)
- Factorize: $6x^2 + 23x + 7$
- Simplify the following:
$$\frac{4}{x+2} + \frac{7}{x^2+3x+2}$$

Question No: 02

(4+3+5)

- Change the fraction $\frac{27}{2}$ in to the equivalent decimal. Also find its Percentage.
- What percent of 450 is 18?
- An item is sold for Rs. 1500. The gross profit is $\frac{2}{3}$ of the cost. What are the cost and the gross profit?

Question No: 03

- Find AB and BA given that

(5+5+5)

$$A = \begin{bmatrix} 2 & 4 & 7 \\ 5 & 3 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 3 & 9 \\ 2 & 4 \end{bmatrix}$$

- Find the value of:

$$\begin{vmatrix} 2 & 2 & 0 \\ -2 & 1 & 2 \\ 2 & 1 & 0 \end{vmatrix}$$

- Solve the following by using Determinant:

$$\begin{aligned} 3x + y &= 5 \\ 6x - y &= 6 \end{aligned}$$

Question No: 04

(10)

Solve the three equations simultaneously by substitution method & draw lines graphically.

$$2x + y + z = 5$$

$$3x - 2y - z = 11$$

$$3x + y + 2z = 11$$

Best of Luck
