

SESSIONAL EXAMINATION, 2024

B.Com 4<sup>th</sup> Semester

Sub:- Business Mathematics

Time :- 1 hour

Total Marks: 20

Answers these questions:

1. Find the 12<sup>th</sup> term of the AP.

3, 7, 11, 15, ...

(2)

2. A shopkeeper bought an article for ₹ 350 and sold it for ₹ 392. Find his % Profit.

(3)

3. Show that :-

$$\lim_{x \rightarrow 2} \frac{x^2 - 3x + 2}{x^2 - x - 2} = \frac{1}{3}$$

(5)

4. Solve by Cramer's rule :-

$$x + y + z = 3$$

$$2x - 3y + 5z = 4$$

$$x + 2y - 4z = -1$$

(10)