**Department of Electronics and Communication Central University of Rajasthan, Ajmer**



Signal and System Lab

Subject ...................................................................................................

ECE 214

Subject Code ...................................................................................................

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Experiment No. .....................................................................................

Date:- - -2024

Roll no:- 2022BTECE012

Name:- Ojasvee Satija

**Title: -** Write a MATLAB code to convolute two discrete time sequences. Plot all the sequences and verify the result by analytical calculation.

**Apparatus required:** - Downloaded MATLAB or OCTAVE software in device.

**Introduction:**- For discrete time sequences the convolution is given as

The above expression for discrete output signal y(n)is called the convolution sum of discrete time input signal x(n) and discrete time unit impulse response that is;

**Code:-**

A computer screen shot of a computer

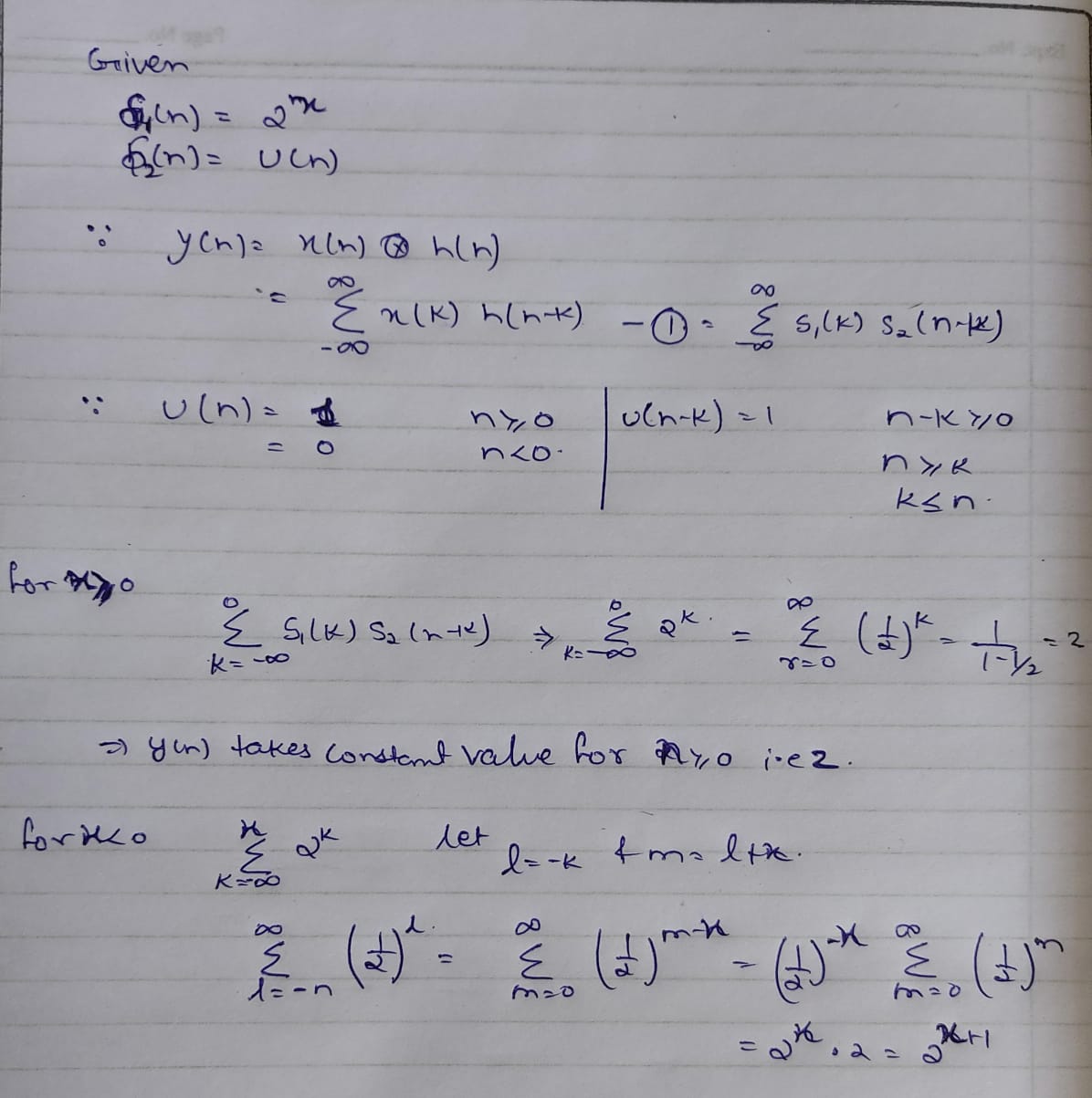
Description automatically generated

**output:-**

A screen shot of a computer

Description automatically generated

**Verification;-**

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**Result:-** Performed the convolution on two discrete time sequences and plotted the results.