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Anowar's Handbook on Application of Computer in Textiles

Md. Anowar Hossain

School of Fashion and Textiles, RMIT University, 25 Dawson Street, Brunswick, Melbourne, VIC 3056, Australia

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12·05·2023
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Key note of handwritten book

This preprint book is helpful for production engineers, textile engineers, students, researchers, professors and professionals in the field of textile engineering and software-based management in textile industry. This handbook is written from author's notebook for exam preparation in Bachelor of Science in Textile Engineering.

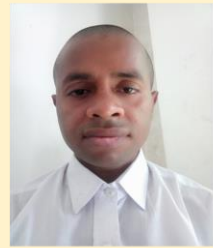**Author information**

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First class.

Application of computer in Textiles

Course code: CSE-421

Course instructor:

    Engr. A.J.M Faisal

Knitting and dyeing

Bengal Hurricane-2007

Prime asia : 2009

Faculty members: NITTRAD

        CU

        CTET

Dist: Feni

Cell: 01912 54 5964

Course content:

  01. Unster Bale Manager

  02. Easy Knit

  03. Propalleto Textiles

  04. Madatzin V6R₁

  05. Diamino Expert.

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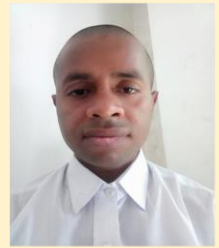engr.anowar@yahoo.com +61 452209738, +8801788396264

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Objective

01. <u>Uster Bale manager</u>

→ Bale selection for uniform mixing

→ Bale positioning

→ Spinning consistency maintaining.

<u>Pre-requisite:</u>

HVI spectrum theory.

02. <u>Easy knit</u>

→ Developing notation diagram of knitted structure

→ Jacquard design development.

→ M/c set up for target production parameters.

→ Knitting calculation.

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03. Propallete Textiles:

→ Recipe formation

→ Shade evaluation

→ Strength of evaluation of colorant

→ Shade shorting

→ whiteness index.

04. Madattin V6RI:

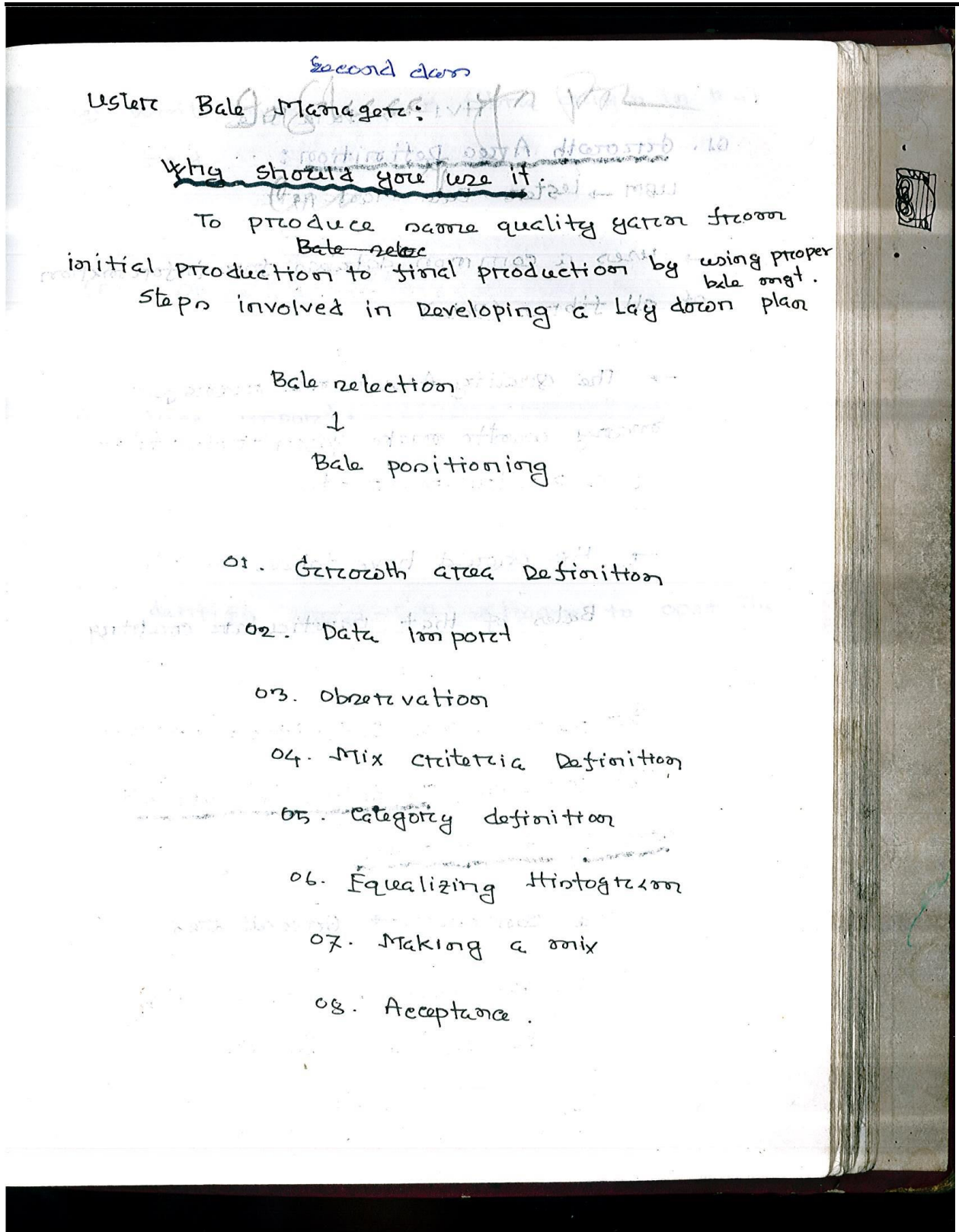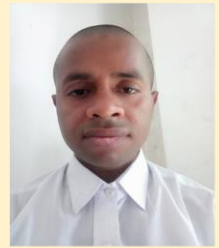→ Pattern making

→ Fine Tunning

→ Grrading

→ modeling

05. Diamino expert:

→ Marker making

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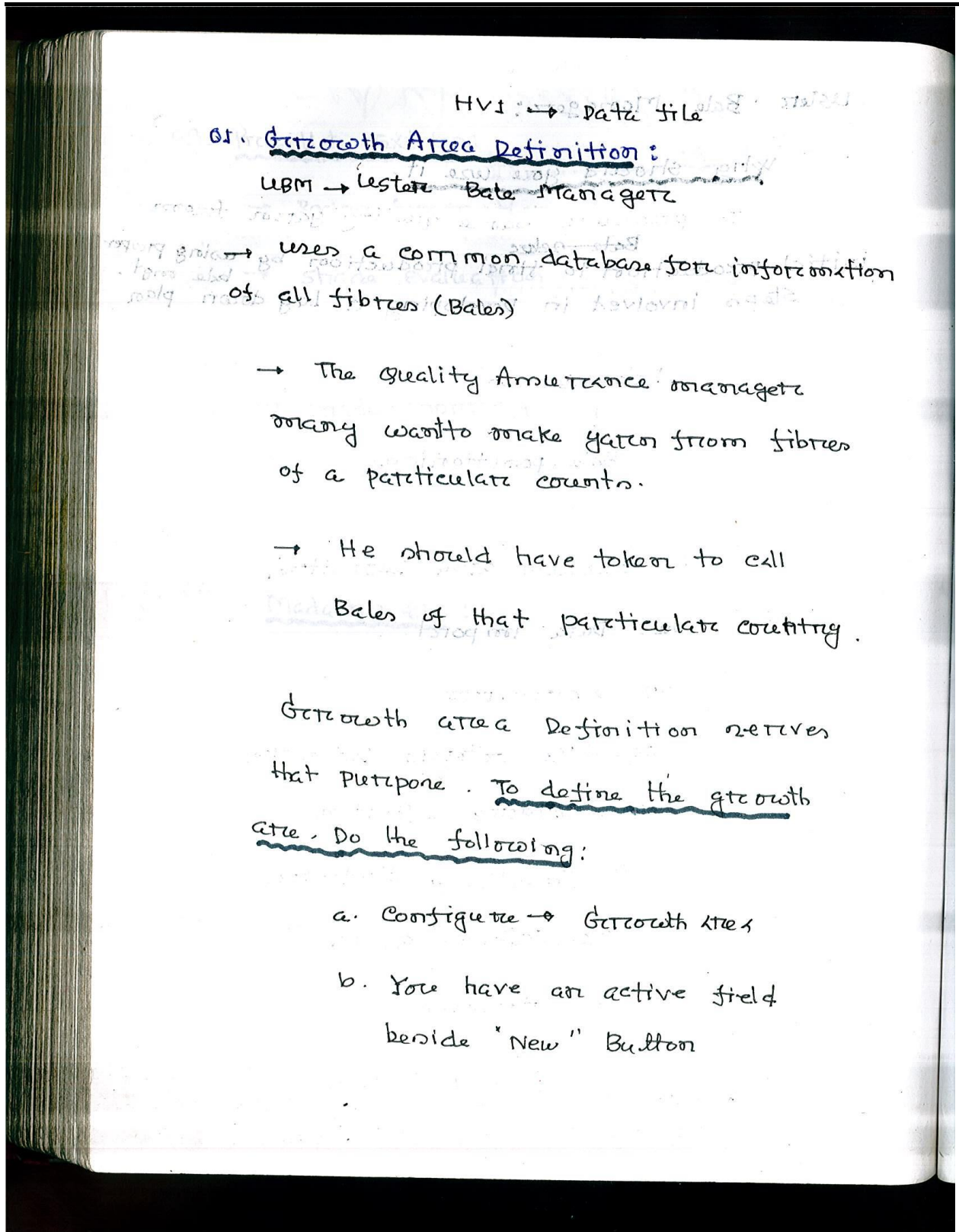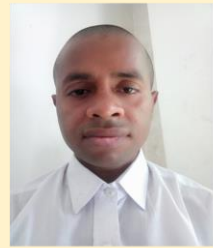engr.anowar@yahoo.com +61 452209738, +8801788396264

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Second day

Uster Bale Manager:

Why should you use it.

To produce same quality yarn from initial production to final production by using proper bale mngt.

Steps involved in Developing a Lay down plan

Bale selection
↓
Bale positioning

01. Growth area Definition

02. Data Import

03. Observation

04. Mix criteria Definition

05. Category definition

06. Equalizing Histogram

07. Making a mix

08. Acceptance.

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HVI → Data file

01. **Growth Area Definition:**

LBM → Lester Bale Manager

→ uses a common database for information
of all fibres (Bales)

→ The Quality Assurance manager
many wantto make yarn from fibres
of a particular counts.

→ He should have token to call
Bales of that particular counting.

Growth area Definition serves
that purpose. To define the growth
area. Do the following:

a. Configure → Growth Area

b. You have an active field
beside "New" Button

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(c) Write the name of H fibre origin in that field.

(d) click "new" Button

(e) ok → ok

02. Data import:

→ Operating system in a pc add extension with every file created so that it can identify appropriate software to open the file.
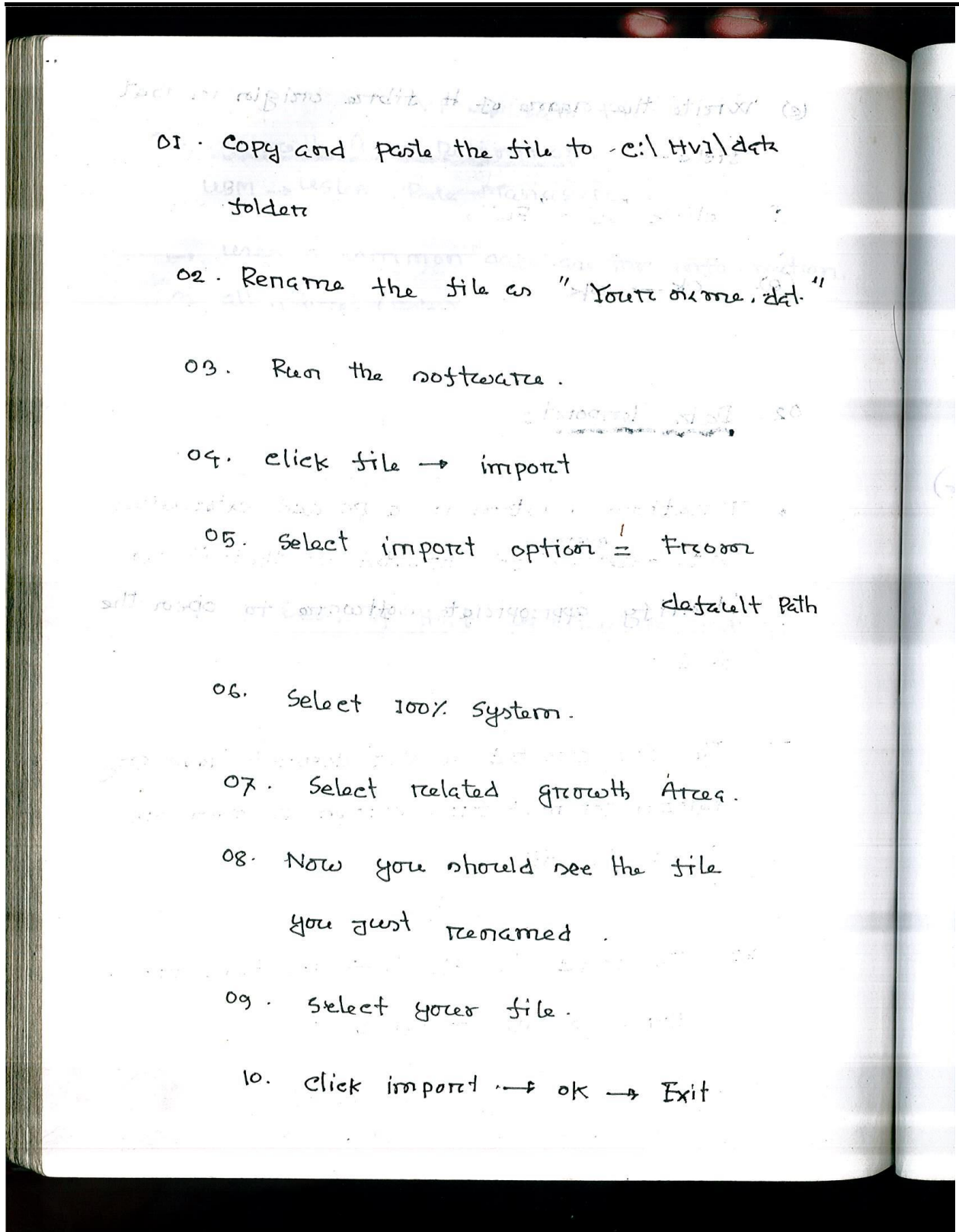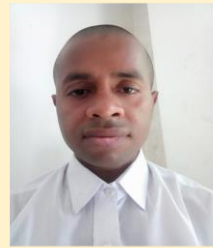
→ The file created in HVI doesn't have any known format for windows to open or read the file

☞ To read the file that you have from HVI, Do the following.

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01. copy and paste the file to -c:\ HVJ\data folder

02. Rename the file as " Your oncome.dat."

03. Run the software.

04. click file → import

05. Select import option = Freon
                              default Path

06. Select 100% system.

07. Select related growth Area.

08. Now you should see the file you just renamed.

09. Select your file.

10. Click import → ok → Exit

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03. Observation:

Study in L·M·E·C·N

Fibre property:

01. Spinning consibtency 9nder

02. Micronaire

03. Maturity

04. length.

05. Uniformity

06. Short fibre 9ndex

07. Strength

08. Elongation

09. Moisture content

10. Degree of reflectance

11. Yellowness
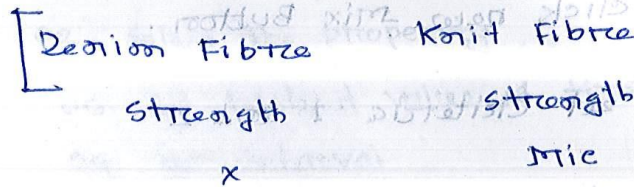
12. Cobtr grade

13. Trash content

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14. Trash area

15. Trash grade

16. Ultra violet.

17. Neps content

A HVI file may contain 15 or more fibre properties. The QAM (Quality assurance manager) finds out the bales out of acceptable Range and notesdown the range of values of important properties.

To observe your imported data do the followings.

01. New View → Inventory

02. Select lot ID

03. Select Growth area

04. Set Limit property = None

05. Set data type = Values.

06. Set view type = Report

07. Ok

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09. Mix criteria Definition

[Denim Fibre   Knit Fibre

Strength ↑   Strength ↓

              Mic

×

Only three properties can be used for
yarn prod^n : strength, length, Mic]

HVI data file may read 15 or more fibre properties but a target product may not have equal importance to all those properties. The QAM takes the decision about which properties the software should take into account during planning and sets up those properties in the software.

To set the mix criteria do the following:

01. Configure → Mix criteria

02. Select "add a new Mix"

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03. Write the name of the new mix

04. Click new mix Button.

05. Set criteria 1 and 2

06. OK.

05. Category Definition:

In this step, for Better uniformity, the QAM defines the number of categories. The software should devide the Bales.

He also sets:

     1. Highest value of first category.

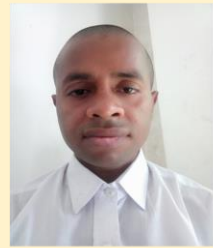   2. Interval.

1. Highest value of first group

2. Distance between the selected value
            ↓
        among

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To define Category Do the following:

01. Configure – Categories

02. Select the property

03. Set highest value of first category.

04. Set Interval

05. Set numbers of categories.

06. Update → ok → Exit.

06. Equalizing Histogram:

For uniform distribution, the SAM, in this step tries to equalize no of bales in different categories.
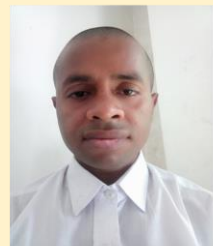
If your Histogram is not equal enough do the following:

01. change parameters in category definition
   a. Highest value of first category.
   b. Interval

02. Define Low limit & High limit
   a. view → inventory

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b. Select necessary parameters.

c. Select Histogram

d. Select Limit.

07. Making a Mix:

After setting all parameters, this is time to set result. In this step, the QAM tells the computer the number of Bales he needs for 1 lay. The number of Bales must be an even number.

To make your first mix. Do the following.

01. Mix - Make

02. Give number of Bales you need (Even.

[Enter] 03. ok

The Page you got shows you the following information:

Md. Anowar Hossain, Anowar's Handbook on Application of Computer in Textiles, School of Fashion and Textiles, RMIT University, 25 Dawson Street, Brunswick, Melbourne, VIC 3056, Australia; Department of Textile Engineering, City University, Khagan, Birulia, Savar, Dhaka-1216, Bangladesh; 17 May 2023.

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(a) Bales in stock under particular combined category and Bales to be used.

(b) Total no of Bales.

(c) Bales position.

08. Acceptance :

In this step, the SAM finds out Bale ID from several Bales under a particular combined category.

He also informs the software the ID of the bale he is using to avoid Fake Bales in Planning. (ভুয়া ↓)

To find out bale ID : open your inventory Page in category mode.
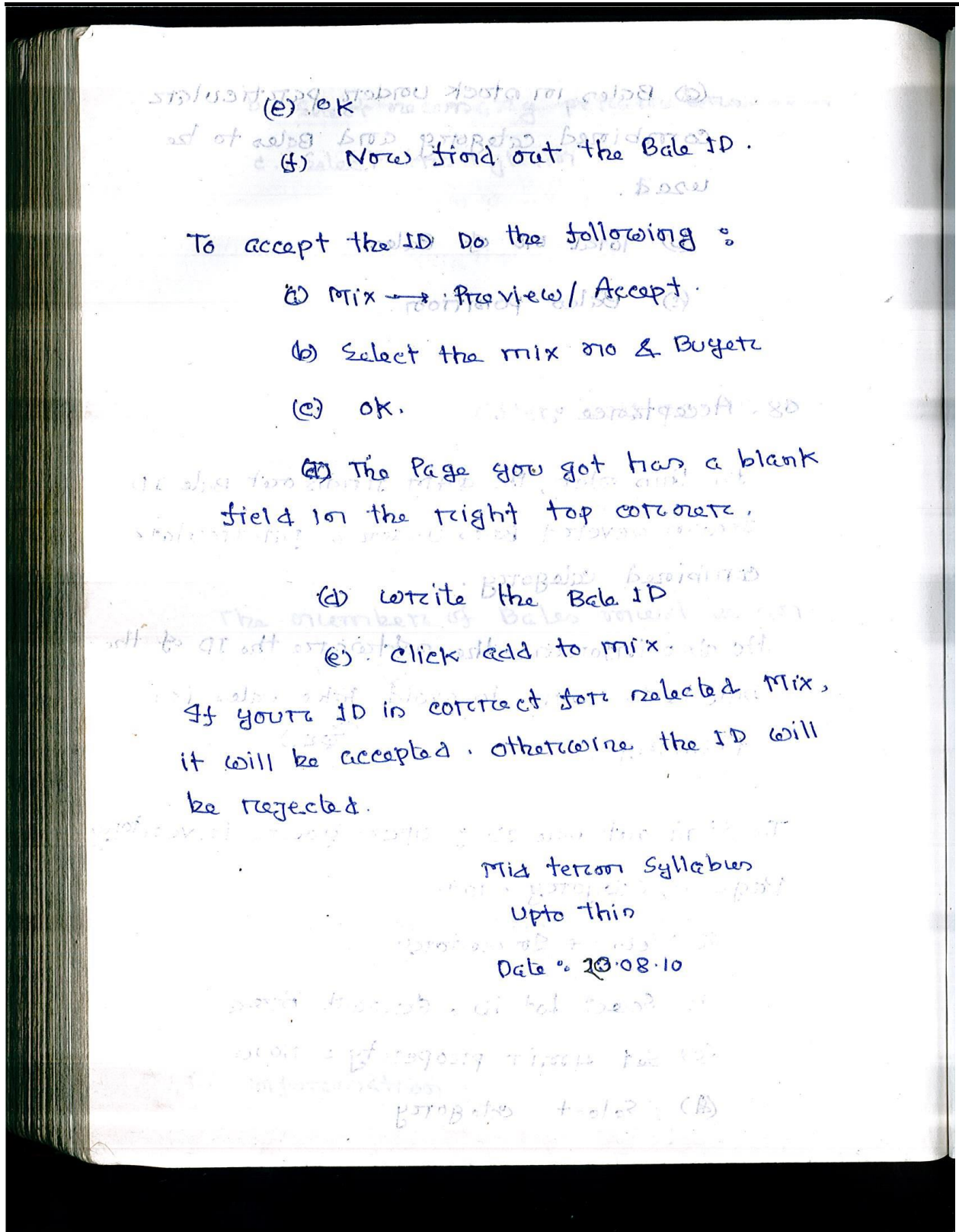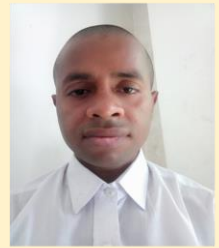
(a) View → Inventory

(b) Select Lot ID, Growth Area
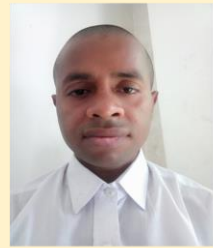
(c) Set limit property = None

(d) Select category

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(e) ok

(f) Now find out the Bale ID.

To accept the ID Do the following:

(a) Mix → Preview/Accept.

(b) Select the mix no & Buyer.

(c) ok.

(d) The Page you got has a blank field in the right top corner.

(d) write the Bale ID

(e) click add to mix.

If your ID is correct for selected Mix, it will be accepted. otherwise the ID will be rejected.

Mid term Syllabus
Upto thin
Date: 10.08.10

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Propallete Textile:

There are two company of spectrophoto-meter:

    (a) Data color

    (b) Macbeth

Object of spectrophoto meter:

① Recept fiond out.

② To assessment the shade of fabric.

01. Prepare meter database

02. Carry out assessment

03. Prepare database:

    a. Create database

    b. Work with substrate

    c. Work with color file

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d. Work with coloriant

e - work with standard.

a. Create database

** Add a new database

File → Newdatabase : c:\ Program files\
Gmetag mac bath\ Protex-6\ Dbase\ [Protex Dbi]-
mdb → ok
** Activate youre database: youer name

File→ opendatabase → [Select youre Database] - ok

a** Delete a database :

File → opendatabase → [Slect the database] →
Press Delete → cancel

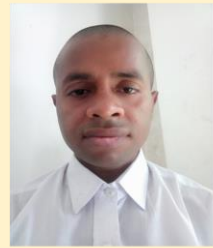b. Work with substrate :

or. add new substrate

(a) application click

(b) substrate click

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(c) Substrate

(d) Insert new substrate.

(e) Give Substrate Name

(f) Take substrate reading

   (3 reading)

(g) Substrate → Save

02. Delete a substrate:

   (a) Application click

   (b) Substrate click

   (c) Activate the substrate by double click

   (d) Substrate click

   (e) Delete.

(c) work with colorfile:

   (a) Add new colorfile

      01. Application → colorfile

      02. Colorfile → Set colorfile.

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03. Give name in the [File Name] Field.

04. Click open

05. Set Substrate Name.

06. Colorfile → Save.

(6)   Delete colorfile

    01. Application → Colorfile

    02. Activate colorfile

      by Double click

    03. Color file → Remove colorfile

(4) Work # with colorcort:

  a. Add new colorcort.

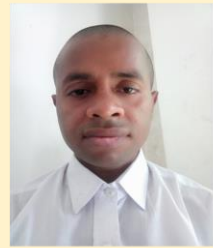   01. Application → Color file

    02. Activate the colorfile

    03. Colorcort → Insert new
                colorcort

    04. Give colorcort Name

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05. Fill in the concentration field : [1% or 2%
    Self Shade]

06. Click "Read concentration icon"

07. Take reading

08. Color file → save

09.

[Minimum three reading should take for
every color in individual concentration
1%, 2%, 3%]

b. update a colorant

01. Application → Colorfile

02. Activate the color file

03. Activate the colorant.

04. Fill in the concentration field.

05. Take reading

06. Colorfile → save

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C. Activate or Deactivate a shade:

01. Application → Colorfile

02. Activate the colorfile

03. Activate the colorant

04. Shift + click on the tick mark (✓) right side the concentration.

05. Colorfile → Save

d. Delete a colorant:

01. Application → Colorfile

02. Activate the colorfile

03. Activate the colorant.

04. click delete (X) icon

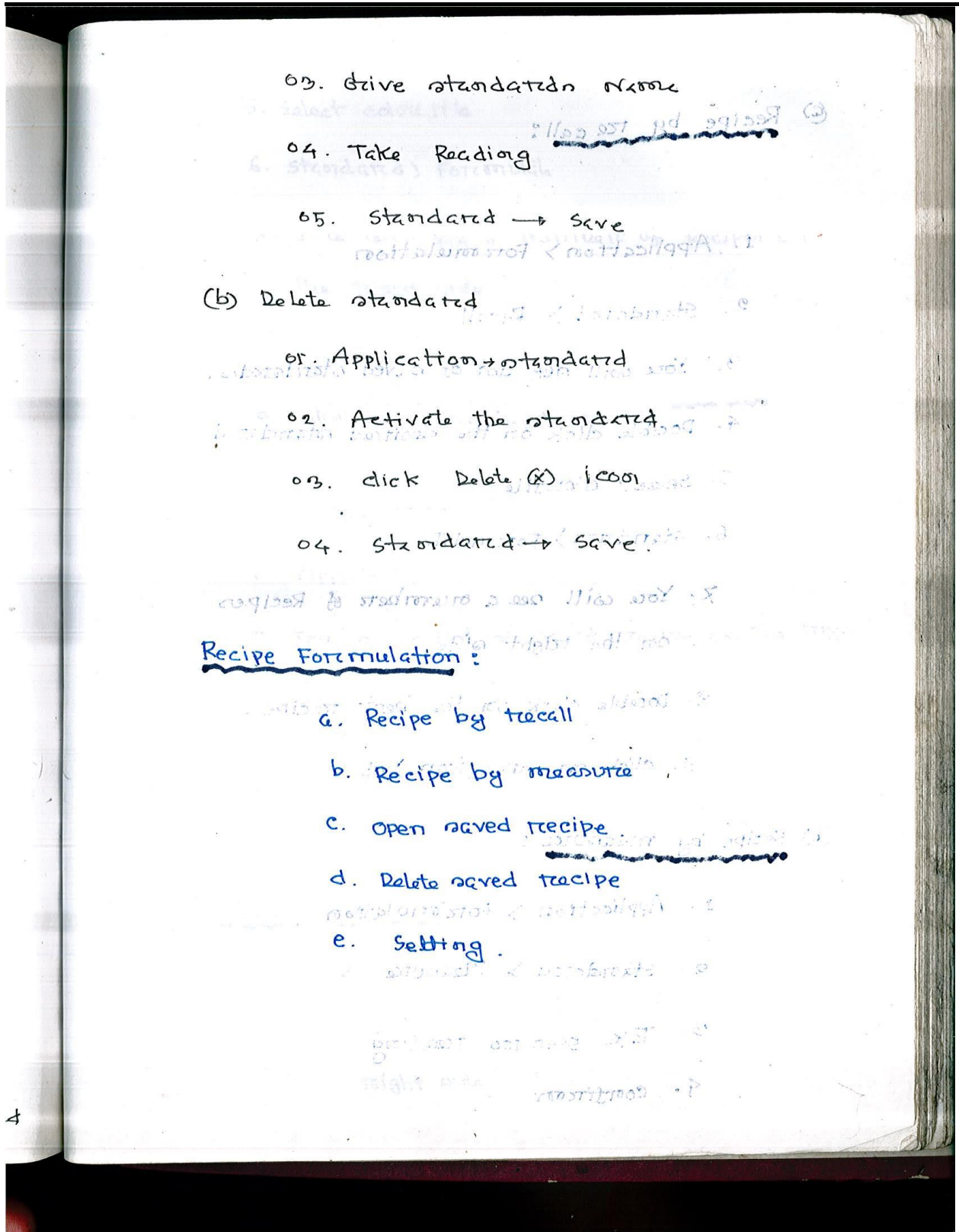05. Colorfile - Save.

(e) Work with standard.

(a) Add new standard.

01. Application → standard

02. Standard → Insert new standard

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03. drive standardn Name

04. Take Reading

05. Standard → save

(b) Delete standard

01. Application → standard

02. Activate the standard

03. click Delete (X) icon

04. standard → save

Recipe Formulation :

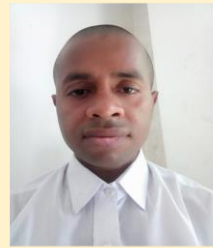a. Recipe by recall

b. Recipe by measure

c. Open saved recipe

d. Delete saved recipe

e. Setting

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(a) **Recipe by recall:**

1. Application > Formulation

2. Standard > Recall

3. You will see list of saved standards.

4. Double click on the desired standard

5. Select colortile

6. Standard > Formulate

7. You will see a number of Recipes on the right side.

8. Double click on the best recipe.

9. click on save icon > ok

(b) **Recipe by measure:**

1. Application > Formulation

2. Standard > Measure

3. Take spectro reading

4. Confirm

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5. Select colorfile

6. standard> Formulate

7. You will see a number of Recipes on the right side.

8. Double click on the best recipe.

9. click on save icon> ok.

(c) Open saved Recipe.

1. Application> Formulation

2. You see a list of saved recipe on the right side.

3. Double click on the desired recipe to open or activate.

4. click on stored recipe list to go back to (2)

(d) Delete saved Recipe:

1. Application> Formulation

2. You see a list of saved recipe on the right side

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3. Double click on the desired recipe to open or activate.

4. click on Delete icon to delete the recipe.

5. Yes.

(e) Setting:

1. click on setting icon

2. You see the following fields there.

   a. Number of colors for each Recipe (Auto)

   b. Number of recipe - (10)

   c. Process Type: Exhaust or Continuous

   d. Batch weight: 5

   e. Liquor ratio: 10
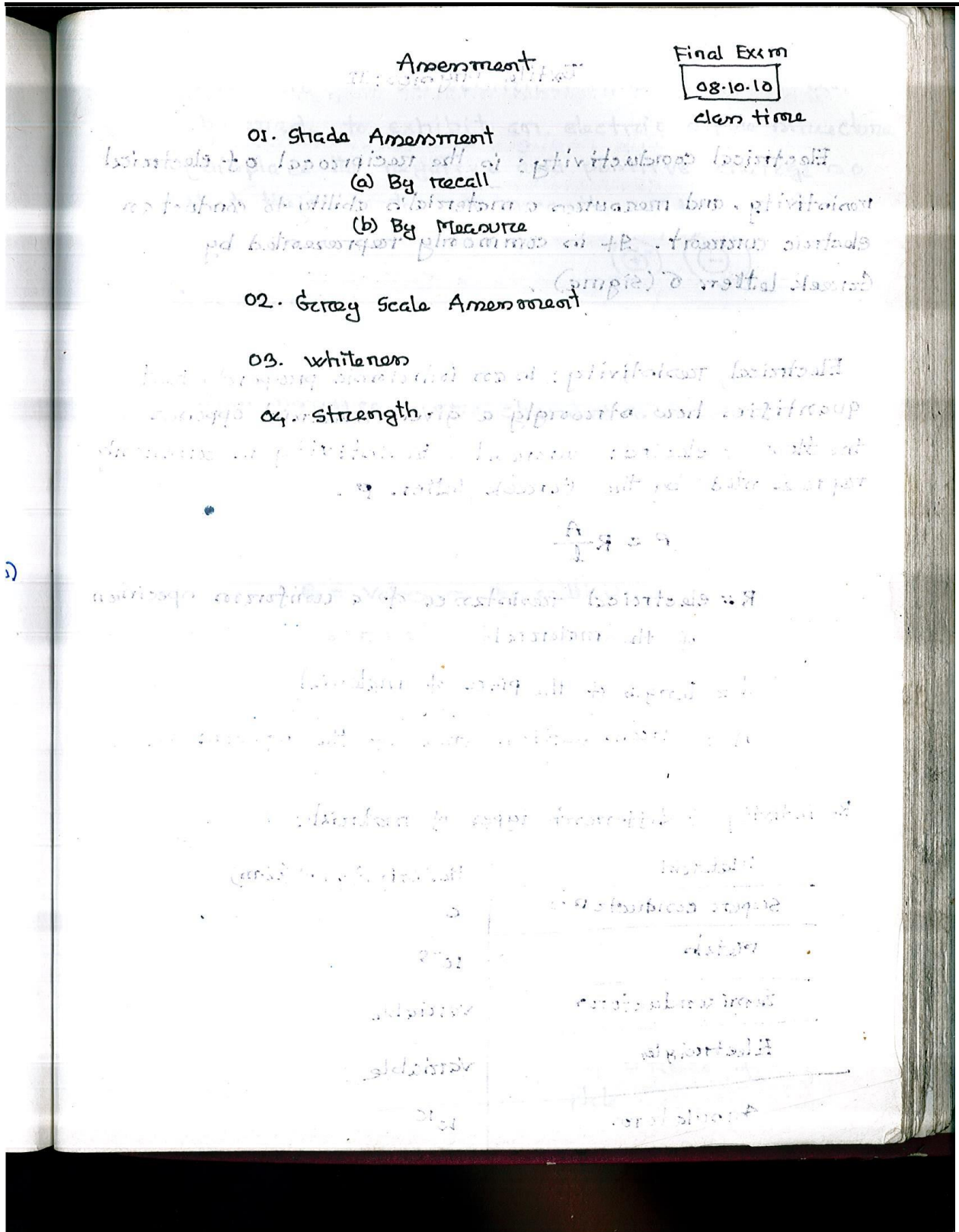
   f. ΔE Limit: 2

$\Delta E \downarrow$ Best recipe

Now set parameters as you wish.

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Assessment   Final Exam
                              [08.10.10]
                              class time

01. Shade Assessment
        (a) By recall
        (b) By Measure

02. Grey Scale Assessment

03. whiteness

04. strength

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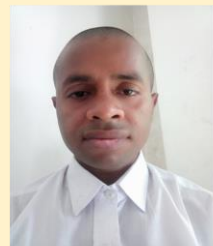*Former Dyeing Officer, Mascom Composite Ltd., Radix Ltd, Gazipur, Dhaka*

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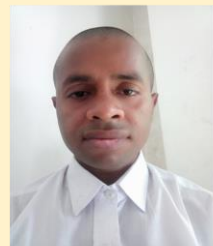*Former Dyeing Officer, Mascom Composite Ltd., Radix Ltd, Gazipur, Dhaka*

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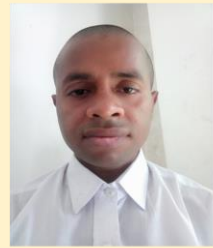Affiliated by University of Chittagong, Bangladesh
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