

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE-APRIL 2018.

TEXTILE WET PROCESSING-I

[Maximum Marks : 100]

Time : 3 Hrs

PART-A
[Maximum marks: 10]

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. State the object of Singeing.
2. Why mercerisation is not recommended for blends containing protein fibres?
3. State the difference between dyes and Pigments.
4. List the methods used for dyeing Aniline black.
5. What do you mean by Vatting? [5X2=10]

PART - B
[Maximum Marks : 30]

II Answer any five of the following questions . Each question carries 6 marks.

1. Explain the precautions to be taken for scouring in Kiers.
2. Write short note on enzymatic desizing.
3. Give the important properties of Vat dyes..
4. Explain the physical and chemical theories of dyeing.
5. Discuss the properties of reactive dyes.
6. State the object of mercerising process.
7. Explain the method used for preventing tendering of Sulphur dyed goods. [5x6 =30]

PART - C
[Maximum marks : 60]

(Answer one full question from each unit. Each full question carries 15 marks)

UNIT I

- III (a) Define Surface tension and Contact angle. (3)
- (b) Explain the sequence of operations in wet processing of cotton textiles. (12)

OR

- IV (a) Write short note on the changes that takes place during scouring. (3)
- (b) Describe the working of Gas singeing machine with neat sketch. (12)

UNIT- II

- V (a) How do the fabrics shrink during mercerization. [3]
(b) Explain the working of hank mercerizing machine with sketch. [12]

OR

- VI (a) List the advantages of hypochlorite bleaching. [3]
(b) Discuss the merits of Peroxide bleaching and Explain the method of bleaching of cotton using Hydrogen Peroxide. [12]

UNIT- III

- VII (a) Explain the methods to improve light and washing fastness of Direct dyed materials. [3]
(b) Discuss the properties of Direct dyes and explain it's method of application on cotton. [12]

OR

- VIII (a) Explain the classification of colouring matters. [3]
(b) Discuss the properties of Acid dyes and explain it's method of application on wool. [12]

UNIT – IV

- IX (a) Classify vat dyes on the basis of their chemical constitution. [3]
(b) Discuss the method of dyeing Mineral Khaki on cotton. [12]

OR

- X (a) Explain the methods to remove bronziness of Sulphur dyed materials. [3]
(b) Discuss the properties of Azoic dyes and explain it's method of application on cotton. [12]
