



SF-8200

B. E. II (Sem. IV) (Textile Processing)

Examination

May / June – 2011

Scouring & Bleaching - II

(New Course)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशिक निशानोंवाणी विगतो उतरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. 2 (SEM. 4) (TEXTILE PROCESSING)

Name of the Subject :
SCOURING & BLEACHING - 2 (NEW)

Subject Code No. : 8 2 0 0 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

(2) Figures to the right indicate full marks.

- 1 (a) Answer the following objective questions : 10
- Enumerate different qualities of wool fibers.
 - Why even after scouring 0.5% waxy impurities is desired in wool ?
 - What are the advantages of suint scouring ?
 - What is staving ?
 - Why synthetics don't required bleaching ?
 - Show the reaction scheme of hydrolysis of polyester with NaOH.
 - Alkali treated polyester fiber shows the handle analogues to _____.
 - What is the effect of weight reduction on polyester fiber density ?
 - Give the name of catalyst which increases the speed of weight reduction of polyester.
 - What are the drawbacks of Polyester ?
- (b) Explain the aminolysis of polyester in contest to mechanism, reactivity of amines and the location of attack. 10

- 2 (a) Describe various technical aspect of polyester scouring and bleaching. 10
 (b) Explain Nylon bleaching. 5

OR

- 2 Describe various methods of scouring of loose wool in detail. 15
- 3 Write short notes on any three of the following : 15
 (a) Carbonization of wool.
 (b) Mechanism of caustic reduction of polyester
 (c) Effect of concentration of alkali and catalyst on weight reduction.
 (d) Degumming of silk.
- 4 (a) Answer the following questions : 10
 (i) Cresylic wetting agents have higher wetting efficiency than non cresylic wetting agent. True or False.
 (ii) Define axial ratio.
 (iii) What is surface tension of mercerizing liquor ?
 (iv) The luster of mercerized fabric is attributed to _____ reflectance of light.
 (v) The luster during mercertization is maximum at _____ °tw alkali.
 (vi) Define semi mercerization.
 (vii) State the function of recuperator during mercerization.
 (viii) Mercurization is based on the _____ action of concentrated aqueous solution of alkali.
 (ix) Give an example of cresylic wetting agent.
 (x) During mercerization, the fiber swells _____ and shrinks _____.
- (b) Discuss all the aspects involves in the yarn mercerization. 10
- 5 Describe the liquid ammonia treatment of cellulose in detail. 15

OR

- 5 Explain the different cloth mercerizing machine in detail with neat sketch : (any two) 15
- 6 Write short notes on any three : 15
 (a) Hank mercerization
 (b) Barium activity number
 (c) Mercerizing wetting agents
 (d) Semi mercerization