



RM-7183

B. E. - III (Sem. VI) (Textile Processing)

Examination

May / June - 2010

Technology of Dyeing - II

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृश्यावले निशानीवाणी विगतो उत्तरवडी पर अवश्य लखवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. - 3 (Sem. 6) (Textile Processing)

Name of the Subject :
Technology of Dyeing - 2

Subject Code No. : 7 1 8 3 Section No. (1, 2,.....): 1&2

Seat No. :

Student's Signature

- (2) Answer to the two sections must be written in separate answer books.
- (3) Figures to the right indicate full marks.
- (4) Tie two sections separately.

SECTION - I

- 1 (a) Choose the correct alternative : 5
- (i) Super micro fibers have following dimension.
- (a) 1 dpf
(b) 0.5 - 1.0 dpf
(c) 0.2 - 0.5 dpf
(d) None of the above.
- (ii) CDPET is dyed at
- (a) 120°C
(b) 130°C
(c) 115°C
(d) 100°C.
- (iii) PP is dyed by :
- (a) Dope dyeing method
(b) Rope dyeing method
(c) Supercritical CO₂ method
(d) HTHP dyeing method.

- (iv) In blend, which blend is more popular :
- P/W
 - P/C
 - P/C/V
 - P/W/V.
- (v) Procynyl dye is a combination of :
- Acid + reactive
 - Disperse + reactive
 - Disperse + direct
 - Acid + disperse.
- (b) Answer in brief : 5
- What is meant by AEG content in nylon ?
 - What is barriness ?
 - What is meant by over dyeing in nylon ?
 - Give some trade names of Disperse dyes.
 - Which monomer is added to convert PET to CDPET ?
- (c) Explain processing of : 10
- Texturised polyester
 - Microfilament polyester.
- 2 Explain principle, construction and working of any two dyeing machines : 15
- Fully flooded jet dyeing machine
 - Cop and cheese dyeing machine
 - Jiggers.

OR

- 2 State the principle of dyeing machines. Describe with neat sketch, working of partial flooded jet dyeing machine. 15
- 3 Write short notes on any three of the following : 15
- Polypropylene dyeing
 - Disperse / Reactive system of dyeing of P/C blend
 - Lavelling agents for Nylon.
 - Hussong longclose dyeing machine.

SECTION - II

- 4 (a) Answer the following objective questions : 10
- Give some trade names of cationic dyes.
 - Define Tg.
 - Reactive dyes are always applied in alkaline medium on any substrate. True or false.
 - What is the function of salt in dyeing of wool with acid dye in neutral conditions ?

- (v) Give the pH range for milling dyes.
- (vi) 1:2 metal complex dyes is dyed at pH _____.
- (vii) Give Tg of polyester and acrylic fibers.
- (viii) Name some of the dyes applicable on silk.
- (ix) Acid mordant dyes are also referred to as _____.
- (x) Which pH is set for dyeing of acrylic with cationic dyes ?
- (b) Discuss in detail application of cationic dyes on acrylic fibres. **10**
- 5** (a) Describe dyeing of silk with basic dyes in detail. **10**
- (b) Describe dyeing of wool with acid dye. **5**
- OR**
- 5** Discuss dyeing of nylon fibre with acid, disperse and procinyl dyes. Give advantages and limitations of these dyes on nylon. **15**
- 6** Write short notes on any three of the following : **15**
- (a) Metal complex dyes
- (b) Classification of acid dyes
- (c) Effect of salt on dyeing of wool with acid dye
- (d) Dyeing of wool with procilan dyes.
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