



SF-8361

B. E. III (Sem. VI) (TP) Examination

May / June - 2011

Analytical Textile Chemistry - II

(New Course)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

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

Seat No. :

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....) :

Student's Signature

(2) Write both the sections in same answer book.

(3) Figures to the right indicate full marks.

1 (a) Answer the following objective questions. 10

(i) Lovibond tintometer is used for quantifying colour of starch, true or false.

(ii) _____ used for confirming ionic nature of cationic surfactant.

(iii) What does the carboxyl content indicate ?

(iv) Starch gives pink colour with iodine, true or false correct if false.

(v) Resist salt is used as reducing agent, true or false.

(vi) Absolute viscosity of printing thickeners can be determined by Zhan cup, true or false.

(vii) Cuprammonium fluidity indicate the damage to the cellulose occurred in _____ process.

(viii) PVA gives blue colour with Boric acid, true or false ? Correct if false.

(ix) The reagent used in determination of % purity of hydros is _____.

(x) Carboxyl content determination is an iodometric estimation, true or false.

(b) Describe the methods for determination of purity of dyestuff. 10

2 Describe the methods for complete analysis of sizing softener. 15

OR

2 Describe the test methods involved in complete analysis of sizing. 15

3 Write short notes : (any three) 15

- (a) Evaluation of desizing agent
- (b) Analysis of sodium alginate
- (c) Drave's test
- (d) Evaluation of dispersing agent.

4 (a) Answer the following objective questions : 10

- (i) Phosphorus content is determined by using ammonium molybdate, true or false.
- (ii) Spectrophotometer measures the optical densities of solutions, true or false.
- (iii) Flame retardant fabrics are tested for formaldehyde content, true or false. Correct if false.
- (iv) _____ test is used for checking performance of water replant fabrics.
- (v) What is difference in Active content and solid content ?
- (vi) For what purpose APO and THPC are used ?
- (vii) Iodine value gives the idea of inorganic matter content in oil, true or false. Correct if false.
- (viii) PVA can be identified by using _____ and _____ solutions.
- (ix) A good leveling agent should show _____ IM rate.
- (x) 1,4 dioxane is used to find the polyethylene content of emulsion softener, true or false.

(b) Give the methods for analysis Poly ethylene and silicone emulsion softeners. 10

5 Describe the methods for evaluation of leveling agents used for cotton as well as for synthetics. 15

OR

5 Discuss methods for determination formaldehyde content of finished fabrics. 15

6 Write short notes : (any three) 15

- (a) Determination of nitrogen content of finished fabrics.
- (b) Evaluation of a detergent
- (c) One Colorimetric estimation of nonionic surfactant
- (d) Spray test..