

Scheme - I

Sample Question Paper

Program Name : Diploma in Textile Technology
Program Code : TC
Semester : Fifth
Course Title : Finishing of Synthetic Fibers
Max. Marks : 70

22577

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FIVE of the following.

10 Marks

- a. State the object of heat setting.
- b. Define pilling.
- c. Define soiling of textile.
- d. List four types of soil.
- e. Define foam with example.
- f. Define the term 1) Percentage 2) gpl
- g. Define the term 1) Micro 2) Nano.

Q.2 Attempt any Three of the following.

12 Marks

- a. Compare gray heat setting with heat setting after dyeing heat setting process..
- b. Describe the mechanism of pill formation.
- c. Describe the mechanism of soiling of textile.
- d. Describe static foam generation method with neat sketch

Q.3) Attempt any Three of the following.

12 Marks

- a. Describe heat setting condition for polyester and P/C blend with justification.
- b. Explain any four factor affecting on soiling of textile with justification.
- c. Explain factors affecting on stability of foam.
- d. With neat sketch describe milling of wool fabric.

Q.4) Attempt any Three of the following.

12 Marks

- a. Explain the mechanism of heat setting of polyester.
- b. Heat setting temperature of polyester is more than 180⁰C. Justify the statement
- c. Use foam finishing method for finishing of 100% cotton fabric.
- d. Formulate recipe for polyester to get sot finish.

e. Explain any application of nano technology in textile

Q.5) Attempt any Two of the following.

12 Marks

- a. Use shrinkage method for evaluation of efficiency of heat setting.
- b. Use any two physical and chemical methods to minimize pill.
- c. Distinguish between macro, micro and nano emulsion.

Q.6) Attempt any Two of the following.

12 Marks

- a. Formulate finishing recipe for polyester fabric to get soft medium and stiff finish.
- b. Explain mechanism of soil release for oily soil.
- c. Explain the mechanism of weight reduction of polyester.

Scheme - I

Sample Test Paper - I

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fifth

Course Title : Finishing of Synthetic Fibers

Max. Marks : 20

22577

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. State the object of heat setting.
- b. State the advantages of gray heat setting.
- c. State the causes of pill formation.
- d. Define pilling.
- e. Define soiling of textile.
- f. Enlist type of soil.

Q.2 Attempt any THREE.

12 Marks

- a. State the condition for heat setting of polyester and P/C blends.
- b. Explain mechanism of heat setting.
- c. Explain fibre factor affecting on pilling tendency.
- d. Explain effect of moisture contain on soiling of textile with example.
- e. Describe evaluation method for soil release finish.

Scheme - I

Sample Test Paper - II

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fifth

Course Title : Finishing of Synthetic Fibers

Max. Marks : 20

22577

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. Define blow ratio with example.
- b. Draw neat sketch of static foam generation machine
- c. Select suitable chemical for 100% polyester fabric to get soft finish.
- d. Formulate finishing recipe for 100% polyester to get stiff finish.
- e. Draw chemical structure of polyester fibre.
- f. Define waterproof and water repellent.

Q.2 Attempt any THREE.

12 Marks

- a. Describe advantages and limitation of foam finishing method.
- b. Explain factors affecting on foam stability with justification.
- c. Calculate chemical and water quantity for 1000 meter fabric to get soft finish. (LD= 8m/kg)
- d. Explain mechanism of weight reduction of polyester
- e. Explain any one finishing with application of microencapsulation.