

## Scheme - I

### Sample Question Paper

**Program Name** : Diploma in Textile Technology  
**Program Code** : TC  
**Semester** : Fifth  
**Course Title** : Process Control in Wet Processing  
**Max. Marks** : 70

**22578**

**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. Define process control with example.
- b. Enlist process control parameters in mercerization.
- c. Define Right First Time Dyeing.
- d. State effect of MLR on dye uptake.
- e. State effect of mesh size on printing process.
- f. List process control parameters of ager machine.
- g. State effect of percentage expression on wet pick-up.

#### **Q.2 Attempt any Three of the following.**

**12 Marks**

- a. Describe functions of Quality Assurance Department.
- b. Describe process control parameter for scouring of cotton in kier machine.
- c. Describe problems and their remedies in cotton dyeing.
- d. Describe process control parameter for flat bed screen printing machine.

#### **Q.3) Attempt any Three of the following.**

**12 Marks**

- a. Explain four point system of fabric inspection.
- b. Select process control parameter for H<sub>2</sub>O<sub>2</sub> bleaching.
- c. Choose process control parameter in dyeing of cotton in jigger machine.
- d. Prepare print paste formulation for printing of cotton with direct dye. State the roll of ingredients.

**Q.4) Attempt any Three of the following.**

**12 Marks**

- a. Use weight loss method to evaluate efficiency of enzyme desizing.
- b. Describe process control parameter for soft flow machine.
- c. Describe process control parameter for star ager machine.
- d. Describe process control parameter for sanforiser machine
- e. Select suitable calender machine for cotton to increase lusture. Describe process control parameter for the same.

**Q.5) Attempt any Two of the following.**

**12 Marks**

- a. Explain effect of process control parameter on dyeing quality with justification.
- b. Explain process control parameter for rotary screen printing machine.
- c. Explain process control parameter for soft finish on stenter machine.

**Q.6) Attempt any Two of the following.**

**12 Marks**

- a. Justify the statement “Process control parameter affect on quality of product”
- b. Prepare print paste formulation for discharge printing of cotton. State the roll of ingredients.
- c. Explain effect of process control parameter on finish quality of resin finish.

## Scheme - I

### Sample Test Paper - I

**Program Name** : Diploma in Textile Technology  
**Program Code** : TC  
**Semester** : Fifth  
**Course Title** : Process Control in Wet Processing  
**Max. Marks** : 20

**22578**

**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 quality with example.
- b. State the object of process control.
- c. Enlist process control parameter in desizing.
- d. Draw neat labelled diagram of kier machine.
- e. Enlist process control parameter for jigger machine
- f. List the fastness properties used for dyeing.

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a. Explain effect of process control parameter in gray inspection.
- b. Describe process control parameter for bleaching of cotton.
- c. Select relevant process control parameter in scouring for good quality.
- d. Explain effect of temperature on dyeing of cotton.
- e. Choose relevant machine for dyeing of knitted fabric. Describe process control parameter for the same.

## Scheme - I

### Sample Test Paper - II

**Program Name** : Diploma in Textile Technology  
**Program Code** : TC  
**Semester** : Fifth  
**Course Title** : Process Control in Wet Processing  
**Max. Marks** : 20

**22578**

**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. Enlist various faults in printing.
- b. Draw neat labelled diagram of table printing machine.
- c. Name any four ingredients used in print paste.
- d. Enlist the finishes used for the cotton fabric.
- e. State the importance of resin in anti crease finish.
- f. Enlist problems in finishing process.

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a. Describe process control parameter in rotary screen printing machine.
- b. Select relevant ingredients used in printing of cotton with reactive dye.
- c. Describe process control parameter in stenter machine.
- d. Select suitable finish to get anti crease finish. Describe process control parameter for the same finish
- e. Describe process control parameter for the calender machine.