

## Scheme - I

### Sample Question Paper

**Program Name** : Diploma in Textile Manufactures  
**Program Code** : TX  
**Semester** : Fifth  
**Course Title** : Spinning of Other Fibres and Blends  
**Max. Marks** : 70

**22580**

**Time: 3 Hrs.**

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#### **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 worsted carding.
- b. State any four application of jute yarn.
- c. State the importance of silk degumming.
- d. State the objectives of blending.
- e. List the blended yarn faults.
- f. State the relative humidity percentage in ring frame department for spinning of PV blended yarn.
- g. State the object of long staple blending.

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

**12 Marks**

- a. Describe with neat sketch working principle of worsted carding.
- b. Describe with flow process chart of manufacturing of linen yarn.
- c. State the classification of silk.
- d. Explain the change places in blow room while blending on cotton system.

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

**12 Marks**

- a. Draw and label rectilinear combing.
- b. Compare any eight points between woolen and worsted yarn.
- c. Explain the gilling process and the working problems.
- d. State the application of linen yarn.

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

**12 Marks**

- a. Explain filature operation in silk yarn manufacturing.
- b. Explain cultivation of cotton.
- c. Describe life cycle of silk worm with flow diagram.
- d. Define degree of blending and index of blend irregularity.
- e. Explain selection of blend constituents.

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

**12 Marks**

- a. Explain application of spin finish and its effects on fiber and yarn properties.
- b. Explain the changes to be made while processing blend constituents on cotton system
- c. State the RH% of each blend spinning department and its effect on blend processing.

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

**12 Marks**

- a. State any six properties of viscose and wool blend yarn
- b. Suggest processing and machine parameters for wool and acrylic fiber blend.
- c. State the properties of ring spun blended yarn.

## Scheme - I

### Sample Test Paper - I

**Program Name** : Diploma in Textile Manufactures  
**Program Code** : TX  
**Semester** : Fifth  
**Course Title** : Spinning of Other Fibres and Blends  
**Max. Marks** : 20

**22580**

**Time: 1 Hour**

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#### **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 woollen spinning.
- b. State the properties of worsted yarn.
- c. State the importance silk degumming.
- d. Enlist any two softener used for cotton.
- e. List the types of silk yarn.
- f. State process sequence for jute yarn.

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

**12 Marks**

- a. Draw and label working principal of woollen carding.
- b. Draw flow process chart for jute yarn and explain each process objectives.
- c. State the application of linen yarn.
- d. Explain cultivation of cocoon.
- e. State the properties of silk yarn.

## Scheme - I

### Sample Test Paper - II

**Program Name** : Diploma in Textile Manufactures  
**Program Code** : TX  
**Semester** : Fifth  
**Course Title** : Spinning of Other Fibres and Blends  
**Max. Marks** : 20

**22580**

**Time: 1 Hour**

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#### **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 objectives of blending.
- b. State the importance of pre blending process
- c. State the RH% of speed frame and ring frame blend spinning department.
- d. State the properties of polyester and wool blend yarn.
- e. State the machine parameters for blend fibre on worsted spinning.

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

**12 Marks**

- a. Compare fleece and sliver blending.
- b. State the importance of spin finish and its effect on processing.
- c. State the process flow chart for polyester viscose blend.
- d. State the properties of wool polyester blend yarn.
- e. State the importance of tinting and its effect on processing.