## Scheme – I

## **Sample Question Paper**

Programme Name	: Diploma in Textile Technology		
Programme Code	: TC	]	
Semester	: Third		22364
<b>Course Title</b>	: Textile Testing	L	
Max. Marks	: 70		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.

- a) Compare direct and indirect yarn numbering on the basis of linear density principle with example.
- b) Calculate CSP of cotton yarn have 2.24 grams lea weight and 60 lbs. lea strength.
- c) Calculate percentage weight loss of PC blend fabric of 1.2 grams which became 1.15 grams after 200 cycles on abrasion tester.
- d) Compare Waterproof and Water resistance fabric on the basis of finish applied, water and air relation of fabric.
- e) Define Tenacity of yarn with its expression.
- f) Write the sample size for fabric tensile strength measurement for cut-strip and raveledstrip method.
- g) Define Air permeability and Air resistance of fabric.

### Q.2) Attempt any THREE of the following.

- a) Calculate the English yarn number of cotton yarn of length 2.24 km and weighing 33.04 grams.
- b) Explain fabric sampling method with relevant sketches.
- c) Describe four factors responsible for pilling of fabric with justification.
- d) Describe four factors affecting Air permeability of fabric with justification.

#### Q.3) Attempt any THREE of the following.

- a) Describe with neat labeled sketch the procedure to measure bursting strength of fabric.
- b) Describe with neat labeled sketch the procedure for measurement of fabric thickness.
- c) Calculate drape coefficient of sateen fabric tested on drape meter using following data, Draped pattern paper weight – 2.5grams,

Ammonia paper weight -0.012 gram per sq. cm,

#### 10 Marks

#### 1

### 12 Marks

12 Marks

Sample size 10" diameter and supporting disk of 5" diameter.

d) Describe the procedure of measurement of pilling resistance of Polyester fabric.

## Q.4) Attempt any THREE of the following.

a) Calculate cloth cover factor of cotton fabric with following data

Warp count – 60 Ne,

Weft count – 40 Ne,

EPI - 80 and PPI - 60.

- b) Describe the procedure for measurement of water repellency with Spray test with neat sketch and ratings.
- c) Explain the effect of yarn unevenness on yarn and fabric properties.
- d) Suggest the relevant method for measurement of twist in polyester spun single yarn with procedure and a labeled sketch.
- e) Describe the use of four end points for Fabric abrasion testing of suiting fabric.

## Q.5) Attempt any TWO of the following.

- a) Calculate the yarn number in English, Tex and Denier count systems for yarn cone weighing 1.8 kg and 250000 meters length.
- b) Describe with sketch the procedure of measurement of tensile strength of PV blend fabric.
- c) Describe the procedure for measurement of fabric water resistance for tarpaulin fabric on Hydrostatic water head tester with neat sketch.

# Q.6) Attempt any TWO of the following.

a) Calculate weight of Cotton fabric with following data,

Warp count – 16 Ne, Weft count – 10 Ne,

 $EPI-60,\,PPI-40,\,Warp\,\,crimp-6\%\,$  and Weft crimp-8%.

b) Calculate Bending modulus of viscose sateen fabric with following data,

Fabric overhanging length – 3.8cms,

Fabric weight – 64 mg per sq. cm and

Fabric thickness – 0.025cm.

c) Describe procedure for measurement of tearing strength of cotton fabric on tearing strength tester with neat sketch.

## 12 Marks

# 12 Marks

12 Marks

### Scheme – I

## Sample Test Paper - I

: Diploma in Textile Technology	
: TC	
: Third	22364
: Textile Testing	
: 20	Time: 1 Hour
	: TC : Third : Textile Testing

#### **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.

- a) Define Tex and Denier with expression.
- b) Define twist and its types with relevant sketch.
- c) Define variations and its types.
- d) Describe the procedure for Fabric width measurement.
- e) Define Wear and Abrasion.
- f) Draw neat labeled sketch of yarn evenness tester.

### Q.2 Attempt any THREE.

- a) Calculate yarn number of polyester filament yarn in Tex and Denier systems of 1000 yards length weighing 18 grams.
- b) Suggest the relevant method for twist measurement of cotton double yarn with procedure and neat sketch.
- c) Calculate crimp percentage of warp and weft yarn of length 11 cm in fabric and extended lengths are 11.65 cm and 11.9 cm respectively.
- d) Suggest the relevant method for measurement of threads per unit length for synthetic filament yarn fabric with procedure and neat sketch.

#### **08 Marks**

12 Marks

## Scheme – I

# Sample Test Paper - II

Programme Name	: Diploma in Textile Technology		
Programme Code	: TC		
Semester	: Third	22364	
<b>Course Title</b>	: Textile Testing		
Max. Marks	: 20	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.

- a) Define abrasion and its types.
- b) Calculate tenacity of 40Ne cotton yarn having 265grams breaking strength.
- c) Calculate CSP of PC blend yarn have 105lbs lea strength and 2.24gram lea weight.
- d) Define Air-Permeability
- e) Draw neat labelled diagram for spray test of fabric.
- f) Give sample preparation method for Tensile strength.

### Q.2 Attempt any THREE.

- a) Calculate Bending modulus of fabric having 3.4cm bending length, 80 mg/sq. cm weight and 0.035cm thickness.
- b) Describe procedure with neat labelled diagram for single yarn strength measurement.
- c) Describe procedure for measurement of water resistance by Hydrostatic head test with neat labelled diagram.
- d) Explain working of strain gauge principle of tensile strength measurement with neat labelled diagram.
- e) Calculate Drape coefficient of cotton fabric with following particulars;
  Draped pattern paper weight 3grams, paper weight 43 mg per sq.cm
  Sample size 10' diameter and supporting disc diameter 5".

# 08 Marks

12 Marks

#### 4