Scheme –I

Sample Question Paper

Programme Name : Diploma in Fashion and Clothing Technology
Programme Code : DC
Semester : Third
Course Title : Textile Testing
Max. Marks : 70

22358

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) Compare direct and indirect yarn numbering on the basis of linear density principle.
b) Define fabric length and list the measurement methods.
c) Calculate percentage weight loss of PC blend fabric of 1.2grams become 1.15grams 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 breaking strength of yarn.
f) Give the sample size for fabric tensile strength measurement for cut-strip and raveled-strip method.
g) Define Air permeability and Air resistance.

Q.2) Attempt any THREE of the following. 12 Marks

a) Calculate English yarn number of cotton yarn having length 2.24km weighing 33.04 grams.
b) Describe fabric sampling method with neat sketch.
c) Describe factors responsible for pilling of fabric.
d) Suggest different methods for assessment of abrasion resistance for army costume fabric by using Martindale abrasion resistance tester.

Q.3) Attempt any THREE of the following. 12 Marks

a) Describe procedure for measurement of bursting strength of fabric with neat labeled sketch.
b) Describe procedure of measurement for colour fastness to rubbing.
c) Calculate drape coefficient of sateen fabric tested on drape meter having following particulars,

Draped pattern paper weight – 2.5grams,
Ammonia paper weight – 0.012 gram per sq. cm,
Sample size 10” diameter and supporting disk of 5” diameter.

d) Describe the procedure for fabric width measurement.

Q.4) Attempt any THREE of the following. 12 Marks

a) Calculate cloth cover factor of cotton fabric with following particulars
Warp count – 60Ne,
Weft count – 40Ne,
EPI – 80 and PPI – 60.

b) Describe procedure for measurement of fabric Dimensional stability.

c) Explain gray scale for colour change and degree of staining.

d) Suggest Describe procedure for measurement of colour fastness to light.

e) Describe any two methods to reduce pill formation on fabric.

Q.5) Attempt any TWO of the following. 12 Marks

a) Calculate yarn number in English, Tex and Denier count systems of yarn cone of 1.8kgs having length of 250000 meters.

b) Describe with neat labeled sketch the procedure for measurement of fabric strength ~~on~~ using fabric tensile strength tester based on pendulum lever principle

c) Describe with neat sketch the procedure for measurement of fabric water resistance on Hydrostatic water head tester.

Q.6) Attempt any TWO of the following. 12 Marks

a) Calculate weight of Cotton fabric with following particulars,
Warp count – 16Ne, Weft count – 10Ne,
EPI – 60, PPI – 40, Warp crimp – 7% and Weft crimp – 10%.

b) Calculate Bending modulus of viscose sateen fabric having following particulars,
Fabric overhanging length – 3.8cms,
Fabric weight – 64mg per sq.cm and
Fabric thickness – 0.025cm.

c) Describe with neat labeled sketch the procedure for measurement of crease resistance of PV blend fabric on crease recovery angle tester.

Scheme –I

Sample Test Paper - I

Programme Name : Diploma in Fashion and Clothing Technology
Programme Code : DC
Semester : Third
Course Title : Textile Testing
Max. Marks : 20

22358

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 Tex and Denier with expression.
b) Define twist and its types with relevant sketch.
c) Define variations and its type's w.r.t. yarn.
d) Describe the procedure for Fabric width measurement.
e) Define Wear and Abrasion of fabric.
f) Draw neat labeled sketch of yarn evenness tester.

Q.2 Attempt any THREE. 12 Marks

a) Calculate yarn number of polyester filament yarn in Tex and Denier systems of 10000 yards length weighing 180 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 10 cm in fabric and extended lengths 10.6 cm and 10.8 cm respectively.
d) Suggest the relevant method for measurement of threads per unit length for synthetic filament yarn fabric with procedure.

Scheme –I

Sample Test Paper - II

Programme Name : Diploma in Fashion and Clothing Technology
Programme Code : DC
Semester : Third
Course Title : Textile Testing
Max. Marks : 20

22358

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 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. 12 Marks

a) Calculate Bending modulus of fabric having 3.4cm bending length, 80 mg/sq. cm weight and 0.035cm thickness.
b) Describe procedure for measurement of colour fastness to washing.
c) Describe procedure for measurement of water resistance by Hydrostatic head test with neat labelled diagram.
d) Explain with neat labelled diagram the working of strain gauge principle of tensile strength measurement
e) Calculate Drape coefficient of cotton fabric with following particulars;
Draped pattern paper weight – 3.5grams, paper weight – 50 mg/sq. cm,
Sample size – 10” diameter and supporting disc diameter – 5”