

Scheme –I

Sample Question Paper

Programme Name : Diploma in Fashion and Clothing Technology

Programme Code : DC

Semester : Third

Course Title : Knitted and Non -Woven Fabric Technology

Marks : 70

22357

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 the term “Course” and “Wale”.
- b) Sketch the Loop structure for Single Jersey Fabric.
- c) State the concept of “C.P.I” and “W.P.I.”
- d) State the concept of “Non Woven Fabric”..
- e) Define the “Warp Knitting”.
- f) State the Properties of non woven fabric.
- g) Sketch needle arrangement and trick arrangement diagram for 1 X 1 Rib machine

Q.2) Attempt any THREE of the following.

12 Marks

- a) Classify the weft knitted fabrics based on their structures.
- b) Compare the woven and knitted fabric based on their Structure, Fabric Properties, Manufacturing Principle, application.
- c) State the Features of Interlock machine.
- d) List The Functions of Following elements on knitting machine.

- | | |
|-------------|------------|
| 1. Cylinder | 3.Spreader |
| 2. Cam | 4. Feeder |

Q.3) Attempt any THREE of the following.

12 Marks

- a) List the four methods to represent knitted fabric on paper and describe each method with relevant sketch.
- b) Describe with sketch concept of Fabric “Spriality” and “Skewnes”.
- c) Describe the method to determine the stitch length of knitted fabric.
- d) Sate the Functions of “Needle Bar ” and “Guide Bar” on warp knitting machine.

Q.4) Attempt any THREE of the following.

12 Marks

- a) Compare the warp and weft knitting with regards to intermeshing principle, application, properties, and feed package.

- b) Describe with sketch needle punching method to produce the non woven fabric.
- c) Suggest lapping diagram for following chain notations of warp knitted fabric,
 - i. 1-0/1-2//
 - ii. 1-2/1-0//
- d) Suggest the favorable properties of nonwoven fabrics for apparel sector.
- e) Describe with sketch the “Lapping Method” to represent warp knitted fabric on paper.

Q.5) Attempt any TWO of the following.

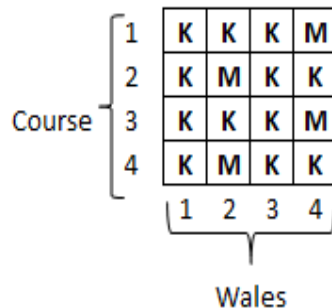
12 Marks

- a) Describe with sketch the passage of yarn through flat knitting machine.
- b) Describe with sketch following ornamented knitted,
 - i. La-Coste
 - ii. Milano rib
 - iii. Ottoman rib
- c) Determine the Course length and G.S.M for following knitted fabric,
 - i. Stitch Length: 3 mm
 - ii. C.P.I : 30
 - iii. W.P.I: 24
 - iv. Yarn Count: 40 Ne
 - v. Total No of loops in a Course: 2000.

Q.6) Attempt any TWO of the following.

12 Marks

- a) Suggest the loop structure for following knitted fabric.
 - 1. 1X 1 Rib Fabric
 - 2. 2 X 2 Rib Fabric
 - 3. 1X 1 Interlock Fabric
- b) Develop needle order and cam order for following knitted fabric,



- c) State the applications of warp knitted fabrics in apparel sector.

Scheme –I

Sample Test Paper - I

Programme Name : Diploma in Fashion and Clothing Technology

Programme Code : DC

Semester : Third

Course Title : Knitted and Non -Woven Fabric Technology

Marks : 20

22357

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 “Needle Loop” and “Face Loop”
- b) List different methods to produce the fabric.
- c) Draw the needle arrangement diagram for 1X 1 Rib machine.
- d) State the principle of weft knitting with relevant sketch.
- e) List the principle stitches of weft knitting and sketch their line diagram.
- f) Classify the weft knitted fabrics based on their structure.
- g) Calculate the course length if knitting machine is running with following specification,
 - a. Stitch length-2.5 mm
 - b. Total number of Needles-2500
- h) Express the symbolic notation for “Face” and “Back” loop.

Q.2 Attempt any THREE.

12 Marks

- a) Sketch loop diagram for single jersey fabric.
- b) Compare woven fabric with knitted fabric based on properties, method of producing the fabric.
- c) State the principle of flat knitting machine.
- d) Describe with sketch the concept of course and wale.
- e) State the effect of tuck and miss stitch on knitted fabric property.
- f) Suggest the loop diagram for Two thread and Three thread fleecy fabric.

Scheme –I

Sample Test Paper - II

Programme Name : Diploma in Fashion and Clothing Technology

Programme Code : DC

Semester : Third

Course Title : Knitted and Non -Woven Fabric Technology

Marks : 20

22357

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 “Angle of Spirality.”
- b) State the concept of “Fabric Barre”
- c) Define “Tightness Factor”
- d) List different elements of warp knitting machine.
- e) Describe with sketch the concept of warp knitting machine.
- f) State the properties of Non woven fabric.

Q.2 Attempt any THREE.

12Marks

- a) Calculate the G.S.M of knitted fabric if knitting machine is running with 30 C.P.I and 24 W.P.I with 3 mm stitch length and knits with 40 Ne.
- b) Determine the 108 feeder knitting machine production in Yards/shift if knitting machine running with 24 cylinders R.P.M and C.P.I is 30.
- c) Describe with sketch the functions of Guide bar in warp knitting machine.
- d) Explain with sketch the method to represent the warp knitted fabric on paper.
- e) Sketch the neat diagram of needle punching machine.
- f) State the different applications of warp knitted fabric.