Scheme –I

Sample Question Paper

Programme Name	: Diploma in Fashion and Clothing Technology	
Programme Code	: DC	
Semester	: Third	22357
Course Title	: Knitted and Non -Woven Fabric Technology	
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) 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.

- 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.

- 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.

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

12 Marks

10 Marks

12 Marks

- 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.

- 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.

- 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.

12 Marks

Scheme –I

Sample Test Paper - I

Programme Name	: Diploma in Fashion and Clothing Technology		
Programme Code	: DC		
Semester	: Third	22357	
Course Title	: Knitted and Non -Woven Fabric Technology		
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 "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.

- 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.

12 Marks

Scheme –I

Sample Test Paper - II

Programme Name	: Diploma in Fashion and Clothing Technology		
Programme Code	: DC		
Semester	: Third	22357	
Course Title	: Knitted and Non -Woven Fabric Technology		
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 "Angle of Spriality."
- 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.

- 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.

08 Marks