



17459

21718

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All questions are **compulsory**.
 - (2) Answer **each** next main question on a **new** page.
 - (3) Illustrate your answers with **neat** sketches **wherever** necessary.
 - (4) Figures to the **right** indicate **full** marks.
 - (5) Assume suitable data, if **necessary**.

Marks

1. Attempt **any five** :

20

- a) Define and draw the weft knitting.
- b) Enlist various ways to produce the fabric.
- c) Give the classification for weft knitted fabrics.
- d) Mark the symbolic notation for
 - i) Single jersey
 - ii) 1×1 Rib fabric.
- e) Define the “loop length” and draw its diagram.
- f) Give the formula for “Tightness factor”.
- g) Give the loop structure for warp knit fabric. Also state significance of chain notation in warp knitting.

2. Attempt **any four** :

16

- a) Define following terms in knitting
 - i) Knit stitch
 - ii) Purl stitch.
- b) Enlist various elements under the knitting zone and state their significance.
- c) Draw the loop diagram for
 - i) 2×1 Rib fabric
 - ii) 1×1 Purl fabric
- d) Give the symbolic notation for following stitches :
 - i) Knit
 - ii) Purl
 - iii) Miss
 - iv) Tuck
- e) State the advantages of “Relanit technique”.
- f) Define and draw a “Angle of spriolity”.

P.T.O.

3. Attempt **any four** :

16

- a) Enlist the properties of knit fabrics.
- b) State the functions of
 - i) Needle
 - ii) Sinker in knitting
- c) Give the detailed classification for knitted fabric.
- d) Enlist various methods to represent the knitted fabric on paper and explain any one.
- e) Draw the loop diagram for “Two thread Fleecy fabric”.
- f) Define the fabric bow and enlist various types of fabric bows.

4. Attempt **any four** :

16

- a) Discuss various reasons for growth of knitting industry.
- b) Explain the merits and demerits of various types of creels.
- c) Draw the needle arrangement diagram and cam arrangement diagram for 1×1 Rib fabric.
- d) Mark the needle order and cam order for following design.

3	X	X	•
Course 2	X	•	X
1	X	X	X
	W ₁	W ₂	W ₃
	Wales		

- e) Explain the procedure to determine the stitch length.
- f) Calculate the G.S.M. of knitted fabric, if knitted fabric having following specification
 - i) C.P.I : 30
 - ii) W.P.I : 24
 - iii) Stitch length : 3 mm
 - iv) Yarn count : 30 Ne.

5. Attempt **any four** :

16

- a) State the functions of
 - i) Cams
 - ii) Fabric spreader
- b) Compare Rib fabric with purl fabric.



[3]

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Marks

- c) Mark diagrammatic notation for,
 - i) La-coste
 - ii) Evermonte
- d) Determine the “tightness factor” if,
 - i) Stitch length : 2.5 mm
 - ii) Yarn count : 40 Ne
- e) Draw the lapping diagram for
 - i) 1 – 0/1 – 0//
 - ii) 0 – 1/ 0 – 1//
- f) Give the classification for flat knitting machines.

6. Attempt any four :

16

- a) Compare warp knitting with weft knitting.
 - b) Compare Tricot machine with Raschel machine.
 - c) State the various applications of warp knit fabrics.
 - d) Draw the lapping diagram and express the chain notation for,
 - i) Tricot stitch
 - ii) Atlas stitch.
 - e) State the objects of cutting department and also enlist the precautions taken in spreading for knitted garments.
 - f) Enlist various cares to be taken while stitching of knitted garments.
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