

313351

12526

3 Hours / 70 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 answer with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: 10
- a) Define weft knitting.
 - b) State any two features of rib machine.
 - c) Enlist four stitches formed in weft knitting.
 - d) Define bow and skewness in fabric.
 - e) Draw the loop structure of warp knit.
 - f) State two differences between warp and weft knitting.
 - g) Define technical textile.

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Marks

2. Attempt any THREE of the following:

12

- a) Explain the following terms :-
 - i) Sinker loop
 - ii) Stitch loop
 - iii) Face loop
 - iv) Back loop.
- b) Differentiate between single jersey fabric and double jersey fabric.
- c) Explain any four common weft knit fabric defects with it's remedies.
- d) Explain the structure of single bar and two bar fabric with examples.

3. Attempt any THREE of the following:

12

- a) Describe the functions of following components of single jersey machine.
 - i) Cams
 - ii) Cylinder
 - iii) Fabric spreader
 - iv) Stripper.
- b) Explain with neat diagram, tuck and float stitch and their effect on fabric properties.
- c) Explain any two tests used to check the quality of weft knit fabric.
- d) Calculate the GSM of fabric, if knitted fabric having CPI = 40, WPI = 35, Stitch Length = 2.00 mm, Count = 45 Ne.

- 4. Attempt any THREE of the following: 12**
- a) Explain the principle and needles arrangement in interlock machine.
 - b) Explain the classification of weft knitted fabric.
 - c) Explain the concept of tightness factor with it's formula and suitable example.
 - d) State the function of latch wire, pattern drum, chain links and needle bar in warp knitting m/c.
 - e) State principle of hand knitting with example.
- 5. Attempt any TWO of the following: 12**
- a) i) Explain the principle of intermeshing of loops.
ii) Compare knitted fabric with woven fabric.
 - b) Describe lapping movement and chain notation for basic stitches in warp knitting m/c with diagram.
 - c) Explain with neat sketch the manufacturing process of non woven fabric by using needle punch method.
- 6. Attempt any TWO of the following: 12**
- a) Describe structure and cam arrangement of flat knitting machine.
 - b) Explain the concept of design, needle order and cam order in weft knitting with suitable diagram.
 - c) Describe laminated and coated fabric properties and give two end uses of each.
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