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CS/B.TECH/APM/SEM-6/APM-604/2012 2012

KNIT WEAR TECHNOLOGY

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives from the following :

 $10 \times 1 = 10$

- (i) Gauge of circular knitting machine is defined by
 - a) No. of needles in 1 diametrical inch
 - b) No. of needles in 1 circumferential inch
 - c) No. of needles in 2 circumferential inches
 - d) No. of needles in 2 diametrical inches.
- (ii) Use of which type of cam is mandatory to produce any weft knitted design?
 - a) Knit cam
- b) Tuck cam
- c) Miss cam
- d) Stitch control cam.
- (iii) The extensibility of which weft knitted fabric is maximum
 - a) Single jersey
- b) Rib
- c) Interlock
- d) Fleece.

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- (iv) Barre is a defect of weft knitted fabric which appears due to
 - a) Only faults in yarn used
 - b) Only defect in knitting
 - c) Only defect in dyeing
 - d) Faults in yarn used and defect in knitting.
- v) Latch needles are widely used in the weft knitting industry mainly because of
 - a) These are cheap
 - b) These are self-acting in nature
 - c) These are simple in construction
 - d) These are more durable.
- vi) Which of the following is a heavy, warm, strong cotton with twill face and a brushed back.
 - a) Bourette
- b) Cable stitch
- c) Breton lace
- d) Canton flannel.
- vii) A thick, pile fabric with surface curls or nubs are called
 - a) Chinchilla
- b) Cheviot
- c) Cape net
- d) French terry.
- viii) Choose the process where by portions of a garment are shaped at the selvedges by increasing or decreasing the number of loops in the width of the fabric.
 - a) Fully cut
- b) Fully fashioning
- c) Stitch shaped
- d) Integral.
- ix) Which of the following are essentially knitted in one piece with little or no seam
 - a) Integral knitted garments
 - b) Fashion sweaters
 - c) Seamed sweaters
 - d) None of the above.

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- A knitted fabric with a soft, short thick nap made by brushing and shearing is called
 - a) Corduroy
- b) Boucle

c) Velvet

d) Velour.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. With the help of diagram, show the different parts of a latch needle and write their functions.
- 3. Although Rib and Interlock machines belong to double jersey weft knitting machines, they are different— How?
- 4. Mention the different stitches used in weft knitted structures and how they are formed?
- 5. Write short note on any two
 - a) Seams used in sweaters
 - b) Steam press
 - c) Yarns used for winter garments.
- 6. What are the common sewing defects on knitted fabrics?
- 7. Difference between integral garments and fully cut.

GROUP - C

(Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$

- 8. a) How knitted fabrics differ from woven fabrics?
 - b) Explain with diagrams, the single jersey knitting cycles with latch needles. 5 + 10

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- 9. a) Explain with schematic diagram the functioning of V-bed rib machine.
 - b) 4-track circular weft knitting machines are more versatile than a 2-trck one in terms of producing designed fabrics Justify.
 - c) Draw a 6-feeder design of interlock base and explain needle functioning in all courses. 5 + 5 + 5
- 10. a) Yarn quality has a great influence on weft knitted fabric defects. Mention some of the yarn quality parameters which affect weft knitted fabric defects and how.
 - b) Quality of weft knitted fabrics depend much on the quality and maintenance of different knitting elements of the machine. Justify this mentioning some important fabric defects.

 8 + 7

9 + 6

- 11. a) What are the production techniques for fully fashions sweaters?
 - b) Describe knitting of cardigans.
- 12. Elaborate on production techniques for sweaters on circular knitting machine .
- 13. a) What are the cutting machines and cutting techniques used for sewing of sweaters?
 - b) What are the operating difficulties and remedies. 8 + 7

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