Register No: …….

M.TECH DEGREE EXAMINATIONS: JUNE 2011

Second Semester

APPAREL TECHNOLOGY AND MANAGEMENT

FTY506: Advanced Knitwear Technology

Time: Three hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Give the production rate of a modern circular weft knitting machine.
2. Give the technical specifications of seamless garment knitting machine.
3. How will you assess seam quality?
4. Define: Run in ratio
5. What are the fabric requirements of a outerwear?
6. Give the operation sequence for round neck knit T-shirt.
7. What do you mean by the term ‘Fully Fashioning’?
8. What do you mean by the term ‘Welt’?
9. Define: Tightness factor and give formulae
10. Give the requirements of action and power stretch garments.

PART B (5 x 16 = 80 Marks)

11. a) Classify knitwear machines based on end product and machine design. With a help of flow chart explain the production techniques of various knitwear garments.

(OR)

b) Discuss in detail about the technology, merits, demerits and applications of seamless garment knitting machines.

12. a) With relevant sketches explain the various classes of stitches and seams used in inner and outer wears.

(OR)

b) Discuss briefly on the various special attachments used in inner garments and the machinery used for the same.

13. a) Explain in detail the production technique for a sports garment (outerwear) and giving their fabric requirements for comfort and safety.

(OR)

b) What is combowear? Give the fabrics used, operation sequence and production technique for knitting the same.

14. a) Discuss briefly on the following

(i) Shape generation in fully fashioned garments (8)

(ii) Production of Cardigans (8)

(OR)

b) What do you mean by Fashioning frequency and fashioning angle? With a suitable example show how to calculate the same for a garment and state its significance in shaping.

15. a) Discuss in detail about Spirality in knitted fabrics and its effect on fabric quality. Give the causes and remedies for the same.

(OR)

b) Write briefly on the following

(i) Stitching and assembly defects in knitted garments (8)

(ii) Seam Puckering in knitted garments and their causes (8)

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