

**G 6038**

M.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Second Semester

Apparel Technology and Management

AT 1651 — TEXTILE AND APPAREL PRODUCT ENGINEERING

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define any two categories of textile product design?
2. Enlist the various factors to be considered in designing a textile product.
3. Select suitable fabrics for the following wears, giving their specifications.
  - (a) Active wear.
  - (b) Party wear (gents).

Furnish the details of suitable finishing technology for the manufacture of stone wash shirts.

Why Rotor spun yarns are not preferred in the manufacture of inner garments?

What is the influence of compact yarns on the construction of the woven fabric?

Define FASE.

Enlist the different functional criteria of designing an apparel fabric.

Enlist the various points to be considered in fabric laying in the manufacture of pants made of 100% texturised polyester.

Furnish the finishing requirements for the following.

- (a) Crape silk sarees and
- (b) Polyester chiffon sarees.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the various factors to be considered in designing a product.

Or

- (b) Discuss the various strategies and standardisation involved in product development.

12. (a) Explain the process involved in designing and development of a sports wear.

Or

- (b) Explain the process involved in designing and development of protective wear.

13. (a) Discuss the structural aspects of the yarns produced through different open end spinning systems.

Or

- (b) Explain the yarn engineering process for developing.

(i) Cotton voile sarees.

(ii) Slub yarn denim.

14. (a) Explain the relationship between the structure and property in case of

(i) Umbrella fabric.

(ii) Terry towel.

Or

- (b) Explain the frame of total material design system for any woven apparel fabrics with an example.

15. (a) Explain the various process parameters and equipments required for manufacturing a men's formal shirt.

Or

- (b) Explain the various finishing techniques adopted in case of jeans.