

B. Tech 8th Semester Examination

Process and Quality Control in Apparel Manufacturing (NS)

TE-421(e)

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in total selecting one question from each of the section A, B, C and D and all subparts of the question in section E.

SECTION - A

1. (a) What is the objective of standardization of specifications of raw material and test procedure? Discuss the various quality parameters need to be tested while selecting fabrics for men's shirting and suiting. (10)
- (b) Discuss in brief the various safety issues to be followed for different types of accessories used in children's garment meant for export. (10)
2. (a) Discuss the various types of cutting defects, their sources and remedial measures. (10)
- (b) What do you mean by tailorability and formability of a fabric? Discuss the important low stress mechanical properties that influence the conversion of fabric to garment. (10)

SECTION - B

3. (a) What are the desirable qualities of a seam? What are the factors need to be considered to ensure a good quality seam? (10)
- (b) What do you mean by seam slippage? Discuss the various reasons for seam puckering and seam slippage. (10)
4. (a) Discuss the factors which need to be checked to prevent seam defects. (10)
- (b) Discuss the desirable properties of sewing thread. How does sewing thread can cause seam puckering? (10)

SECTION - C

5. (a) Explain OC curve and its significance. Draw a typical OC curve and define the following :
(i) Customer risk (ii) producer risk (iii) AQL (iv) Lot tolerance percentage defective. (LTPD) (10)
- (b) What is a care label? What are the general guidelines to be followed in a care labeling system? (10)
6. (a) What do you mean by sampling? What do you mean by Acceptance Quality Level? What are the limitations of 100% inspection? (10)
- (b) Discuss in brief the single sampling inspection plan and its limitation. (10)

SECTION - D

7. (a) Explain the concept of Quality Management System. What are the benefits of implementing Quality Management System in an organization? (10)
- (b) Discuss in brief procedure for implementing ISO-9000 quality management system in a garment industry. (10)
8. (a) What do you mean by quality circle? Explain the application of cause and effect diagram in quality control with special reference to garment industry. (10)
- (b) Discuss various types of control charts and their scope of applications. (10)

SECTION - E

9. Attempt all questions:
 - (i) What do you mean by random sampling?
 - (ii) Define the term Total Quality Management (TQM).
 - (iii) What is Quality audit?
 - (iv) Define the term needle cutting index.
 - (v) What is the need of fabric inspection?
 - (vi) What do you mean by cost of quality?
 - (vii) What do you mean by inspection loop?
 - (viii) What do you mean by AOQL? (8×2½=20)