

**B.TECH., DEGREE EXAMINATIONS: NOV/DEC 2012**

Seventh Semester

**FASHION TECHNOLOGY**

FTY120: Quality Assurance in Apparel production

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Arbitrary sampling is
  - a) 100% sampling
  - b) 10% sampling
  - c) 90% sampling
  - d) Random sampling
2. Final inspection in garment manufacturing is
  - a) At end of sewing line
  - b) At the end of ironing
  - c) During packing
  - d) Before shipment
3. Which standard system among the following insists on prohibition of child labour?
  - a) ISO
  - b) TQM
  - c) SA 8000
  - d) ASTM
4. p- chart is used for the control of
  - a) No.of defectives
  - b) Defects per unit
  - c) No.of defects per uit
  - d) Fractional defectives
5. The standard organization GOTS ensures that product is
  - a) Organic
  - b) Health & safety
  - c) Meet customer requirement
  - d) Government Regulation
6. The tolerance level specification given for woven fabric weight is
  - a) +/- 3%
  - b) +/- 5%
  - c) +/- 8%
  - d) +/- 10%
7. Bowing is
  - a) Repetitive visual pattern of continuous bars parallel to filling
  - b) Filling yarn is running in curvature between end points
  - c) Stripe fabric defect
  - d) Shade band running across the width of fabric
8. The number of points allotted for a defect of length 3" to 6" in 4 point system is
  - a)1
  - b)2
  - c)3
  - d)4
9. 'Scoop pull off' is the test used to assess the performance of

- a) Labels
  - b) Buttons
  - c) Zippers
  - d) Sewing thread
10. Under which quality cost category the cost of returned merchandise is classified?
- a) Prevention cost
  - b) Appraisal cost
  - c) External failure cost
  - d) Internal failure cost

**PART B (10 x 2 = 20 Marks)**

11. Define AQL
12. Differentiate between quality assurance and quality control
13. What is the significance role of control chart in apparel quality control?
14. Differentiate between product and process defect.
15. Write any four standard performance specifications of knitted fabric for kids wear.
16. Highlight the role of ASTM in apparel industry
17. Differentiate between major and minor defects
18. Mention the quality control activities in cutting department.
19. List out the factors to be considered for evaluating the performance of zippers and buttons.
20. Write down the quality parameters to be considered for packing materials inspection.

**PART C (5 x 14 = 70 Marks)**

21. a) (i) Discuss the various types of sample inspection system followed in apparel industry. (8)
- (ii) Briefly explain how AQL standards used in apparel industry. (6)
- (OR)**
- b) (i) Explain how final inspection is carried out in apparel manufacturing process. (9)
- (ii) Briefly explain how statistical sampling is different from arbitrary sampling. (5)
  
22. a) Discuss the various types of control charts and its applications.
- (OR)**
- b) Elaborate the objectives and implementation procedures of ISO.
  
23. a) Explain in detail about the following international standard organization and its role in specifying apparel standards.
- (i) GOTS (4)
- (ii) Oekotex (5)
- (iii) AATCC (5)

**(OR)**

b) Explain the woven fabric performance specifications for a men's and children's wear.

24. a) (i) Explain the various quality control forms used in sewing department to assure the quality of garments. (9)

(ii) A fabric roll of 70 yards of 58" width which contains the following defects. (5)

4" defect – 24 nos

8" defect – 10 nos

12" defect – 5 nos

0.5" holes – 5 nos

2.5" holes – 8 nos

Check whether the fabric can be accepted under 4 point system

**(OR)**

b) Discuss the various control measures to be taken in spreading and cutting department of an apparel manufacturing firm.

25. a) Tabulate the tolerance limits for various measurements of finished woven shirt. (5)

What is the significance of quality cost? Explain how quality cost can be divided in the context of garment manufacturing. (9)

**(OR)**

b) Explain in detail the various quality control tests carried out for trims and accessories.

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