

# 314350

**12526**

**3 Hours / 70 Marks**

Seat No. 

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Figures to the right indicate full marks.  
(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following :** **10**
- a) Define 'Quality' and 'Quality Assurance'.
  - b) Enlist types of statistical sampling methods.
  - c) Name the categories of defects in apparels.
  - d) List any four defects in garments.
  - e) Define 'seam efficiency' and 'seam slippage'.
  - f) Define 'root cause' with respect to garment defects.
  - g) Give significance of quality audit.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain subjective and objective aspects of quality.
  - b) State penalty point allotment criteria in 4-point and 10-point systems.
  - c) Explain any 8 defects in cutting department.
  - d) Explain final inspection procedure for full garment.
- 3. Attempt any THREE of the following :** **12**
- a) Discuss any four parameters for sewing step in factory evaluation.
  - b) Explain the terms 'loop strength' and 'twist' with respect to sewing thread.
  - c) Suggest rectification of any four possible defects in stitching of garments.
  - d) Explain the dimensional properties of different fabrics.
- 4. Attempt any THREE of the following :** **12**
- a) Give procedure to calculate seam strength.
  - b) Write the test procedures to measure snagging by mace tester and bean bag tester.
  - c) Analyse the sampling procedure in continuous sampling with example.
  - d) Analyse garment pressing with respect to probable faults and their remedies. (Any four)
  - e) Explain role of management in quality improvement.

- 5. Attempt any TWO of the following :** **12**
- a) Analyse the perception of customers and manufacturers towards quality.
  - b) Describe the application of crockmeter with its relevance to garment testing.
  - c) Discuss the use of fishbone diagram pareto chart and histogram as quality tools.
- 6. Attempt any TWO of the following :** **12**
- a) Discuss the bond strength and shrinkage testing for fusible interlinings.
  - b) Suggest the standard test procedure to test strength of zippers for –
    - i) element pull - off
    - ii) top stop holding
  - c) Discuss following techniques to improve quality of garment manufacturing –
    - i) Kaizen
    - ii) Ford 8D problem solving.
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