



Name :
Roll No. :
Invigilator's Signature :

CS / B.TECH (APM) / SEM-5 / APM-502 / 2010-11

2010-11

GARMENT PRODUCTION, MACHINERY & EQUIPMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Application of overlock stitches is
 - a) Seam neatening
 - b) Edge neatening
 - c) to prevent fraying of thread
 - d) all of these.
 - ii) Stitches of 400 class has component like
 - a) needle thread only
 - b) looper thread only
 - c) needle & looper thread
 - d) any one of these.



- iii) Disadvantages of class 400 stitches is
- a) increased bulk under the seam
 - b) likely to cause seam pucker
 - c) less elasticity
 - d) need to wind bobbin.
- iv) The property of lock stitches are
- a) low bulk and thin
 - b) good strength & abrasion resistance
 - c) poor elasticity
 - d) all of these.
- v) Chain stitches have the application like
- a) temporary stitches
 - b) for seams requiring stretch
 - c) seam neatening
 - d) to prevent fraying.
- vi) In differential bottom feed system
- a) lower ply of fabric is stretched
 - b) top ply of the fabric is overfed
 - c) both (a) and (b)
 - d) none of these.
- vii) Lock stitch can be classified as
- a) Intralooping
 - b) Interlooping
 - c) Interlacing
 - d) any one of these.



- viii) Stitch type 304 is
- Zigzag type lock stitch
 - Lock stitch
 - Chain stitch
 - Zigzag chain stitch.
- ix) Stitch type 401 is of the type of
- Interlacing
 - Interlooping
 - Intraloooping
 - none of these.
- x) Covering chain stitches are suitable for
- covering stiches for decorating purpose
 - can be used to joint or two raw edges
 - suitable for knitted garments
 - all of these.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- How stitches can be broadly classified ? Discuss their application in various purposes.
- Why and how the adjustment of thread tension and stitch length are done in sewing machine ?
- What are the points that are to be considered to assess stitch quality ?
- Draw in motion translation diagram to various functional parts of the lock stitch machine. Why lock stitch machines are so versatile ?
- “Differential feed enhances stitch quality.” Explain.
- Discuss any five types of stitch defects and their causes and remedies.



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

8. Why is spreading and cutting operation so important in apparel industry ? What are the different cutters used in the industry ? State their advantages and disadvantages.
9. What are the various functional parts in stitching machines ? Discuss their importances in detail.
10. How lock stitches and chain stitches can be compared ? Discuss the important elements for chain stitches. Discuss the importance of chain stitches.
11. Why overlock machines are so important in the apparel industry ? Explain working principle of the overlock machine. How does it differ from stitch class 600 and 300 ?
12. Give a flow chart for manufacturing Men-shirt step by step, mentioning machines, equipment required in each stage of garment manufacture, stating the production and process control points.
13. Write short notes on any *three* of the following : 3×5
 - i) Fusing or pressing machinery
 - ii) Folding machines
 - iii) Collar turning machines
 - iv) Button hole making & sewing machine
 - v) Trimmings
 - vi) Stitch number and its importance.

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