Nama	
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.

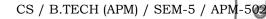
GROUP - A

(Multiple Choice Type Questions)

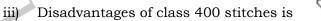
- 1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Application of overlock stitches is
 - a) Seam neatening
 - b) Edge neatening
 - c) to prevent fraying of thread
 - d) all of these.
 - ii) Stitches of 400 class has component like
 - a) needle thread only
 - b) looper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

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[Turn over]



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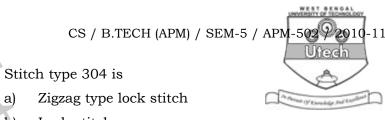


- a) increased back under the seam
- b) likely to cause seam pucker
- c) less elasticity
- d) need to wind bobbin.
- iv) The property of lock stitches are
 - a) low bulk and thin
 - b) good strength & abrasion resistance
 - c) poor elasticity
 - d) all of these.
- v) Chain stitches have the application 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.

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Lock stitch b)___

viii)

a)

c) Chain stitch

Zigzag chain stitch. d)

Stitch type 401 is of the type of ix)

> a) Interlacing Interlooping b)

- Intralooping none of these. d) c)
- Covering chain stitches are suitable for x)
 - a) covering stiches for decorating purpose
 - can be used to joint or two raw edges b)
 - c) suitable for knitted garments
 - d) all of these.

GROUP – B

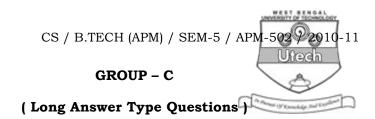
(Short Answer Type Questions)

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

- How stitches can be broadly classified ? Discuss their 2. application in various purposes.
- Why and how the adjustment of thread tension and stitch 3. length are done in sewing machine?
- 4. What are the points that are to be considered to assess stitch quality?
- Draw in motion translation diagram to various functional 5. parts of the lock stitch machine. Why lock stitch machines are so versatile?
- "Differential feed enhances stitch quality." Explain. 6.
- 7. Discuss any five types of stitch defects and their causes and remedies.

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[Turn over]



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

- Why is spreading and cutting operation so important in 8. 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

- Fusing or pressing machinery i)
- ii) Folding machines
- iii) Collar turning machines
- Button hole making & sewing machine iv)
- v) Trimmings
- Stitch number and its importance. vi)

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