

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Tech(APM)/SEM-5/APM-502/2011-12**

**2011**

**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.*

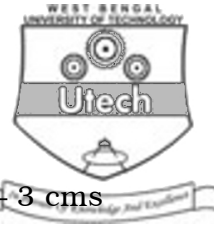
**GROUP – A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) The overlock stitches are traditionally used for
  - a) edging and light seaming
  - b) flat locking
  - c) pearl stitching
  - d) chain stitching.
- ii) Two and three thread formations are known as
  - a) sergers
  - b) merrowing
  - c) loopers
  - d) butt seaming.
- iii) Which of the following parts pulls the fabric while stitching ?
  - a) Spool
  - b) Presser foot
  - c) Feed dog
  - d) Bobbin.



- iv) SNLS bobbin has a diameter of
- a) 1 cm – 2 cms
  - b) 2 cms – 3 cms
  - c) 1.5 cms – 2.5 cms
  - d) 3.5 cms.
- v) Butt seaming is used for
- a) folding edges
  - b) flat locking
  - c) side seaming
  - d) joining ends of piece goods.
- vi) 'Missing stitch' means
- a) stitches are not formed in between
  - b) breakage of sewing thread
  - c) stitches are out of the sewing line
  - d) stitch skipping.
- vii) Coarse pitch of feed dog is usually used for
- a) thick and hard material
  - b) light weight material
  - c) compressible material
  - d) all of these.
- viii) Needle size 22 to 26 is generally used for
- a) Extra light weight Nylon material
  - b) Woollen suits
  - c) Shirts knitwear
  - d) Extra heavy weight materials such as Canvas or the like.



- ix) Stitch number 200 represents
- a) Hand stitching
  - b) Over-edge chainstitch
  - c) Lock stitch
  - d) Double chainstitch.
- x) Change of stitch length in SNLS machine changes which of the following motions ?
- a) Needle bar motion
  - b) Feed vertical motion
  - c) Thread take up lever
  - d) Hook thread take up.

**GROUP – B**

**( Short Answer Type Questions )**

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

2. What is tilt of the feed dog ?
3. What are needle feed and puller feed ?
4. Write notes on Marker Plan efficiency.
5. Write in brief about computer controlled cutting.
6. What are needle height and feed dog height ?
7. Draw the standard motion diagram of Needle Bar, Thread take up lever and feed vertical motion for a SNLS machine.
8. Explain different types of thread numbering systems generally used for sewing thread.



**GROUP – C**

**( Long Answer Type Questions )**

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

9. Write in brief about the types of sewing machines based on bed types showing schematic diagram.
10. Elaborate on the parts, its functions and adjustments of an overlock sewing machine.
11. Elaborate on folding machinery, collar turning machinery, fusing and pressing machinery.  $5 + 5 + 5$
12. Explain the mechanism of stitch formation in a Single Needle Lock stitch machine. Illustrate suitable diagrams to show the sequential steps of stitch formation.
13. Explain the mechanism of Link type thread take up lever. What do you mean by 'Advanced feed timing', 'standard feed timing' and 'delayed feed timing' ?  $5 + 10$
14. Explain stitch number, ticketing numbers, needle number. Discuss the working of a bar tack sewing or botton hole sewing machine. What is botton pull out test ?

$( 2 + 2 + 2 ) + 6 + 3$

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