

# 17460

**15116**

**3 Hours / 100 Marks**

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answers with neat sketches wherever necessary.  
(4) Assume suitable data, if necessary.

**Marks**

1. **Attempt any TEN of the following :** **20**
- Illustrate the different types of lays with line diagram.
  - Define ‘cutting’.
  - Suggest a machine for which following needle types are used -
    - DC
    - HA
    - DP
    - TQ
  - Enlist the basic parts in SNLS.
  - Define work-aids.
  - Define ‘marker’ and give the formula for calculating efficiency of marker planning.
  - Enlist the various types of overlock machines and state the no. of loopers present in respective types.
  - State any two defects observed in cutting and suggest the remedial measure.
  - What is tongue chaining plate ? What is its use ?

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- j) How will you adjust the stitch length in SNLS ?
- k) Enlist the factors responsible for 'seam puckering'.
- l) State the respective use of –
  - (i) ball-point
  - (ii) set-point needles.
- m) What are the factors affecting fusing process ?
- n) What is the use of compacting pressure foot ?

**2. Attempt any FOUR of the following :** **16**

- a) Explain the computerised marker planning.
- b) Describe the construction and working of band knife cutting machine.
- c) Write a short note on 'sewing machine needle'.
- d) Explain various feed systems observed in sewing machines,
- e) Explain the threading steps for flat lock machine.
- f) Write in short about the 'computer aids' used in garment industry.

**3. Attempt any TWO of the following :** **16**

- a) Write a note on straight knife cutting machine based on following points –
  - (i) Diagram
  - (ii) Construction
  - (iii) Working
  - (iv) Advantages
- b) State the objectives of fusing and write in brief about different resins used for fusing.
- c) Explain the construction and working of –
  - (i) Buttonhole machine
  - (ii) Buttonstitch machine

- 4. Attempt any FOUR of the following :** **16**
- a) What are the various fabric packages that are received in garment factory stores ?
  - b) Discuss the various requirements for quality cutting.
  - c) Explain the needle classification on basis of shape of the needle.
  - d) Describe the stitch formation mechanism in SNLS.
  - e) Draw the threading diagram for 5-thread overlock machine.
  - f) State the working of collar turning machine.
- 5. Attempt any FOUR of the following :** **16**
- a) Explain the various factors that affect efficiency of marker plan.
  - b) Explain 'the notchers' as cutting tool.
  - c) Describe about the location and function of following machine parts -
    - (i) Bobbin shuttle
    - (ii) Throat plate
  - d) State various steps to adjust the positions of upper and lower knife.
  - e) Name the various pressing equipments and explain working of any one.
  - f) Explain the construction and working of 'blind stitch machine.'

**6. Attempt any FOUR of the following :**

- a) Differentiate between -
    - (i) manual spreading
    - (ii) machine spreading.
  - b) Explain method to determine the needle size and what are the two systems related to needle sizing.
  - c) 'Tension setting is most important parameter in SNLS for quality stitch formation'. Justify.
  - d) State various types of loopers observed in 5-thread overlock machine and state their functions.
  - e) How the setting of needle height is carried out in flat lock machine and what is its significance.
  - f) Explain any four modification in presser-foot that are used as workaids.
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