

# 17460

**21718**

**3 Hours / 100 Marks**

Seat No.

--	--	--	--	--	--	--	--

- 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.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any TEN of the following:** **20**
- Give the formula to calculate marker efficiency.
  - Name the type of package used for knitted fabric and velvete fabric.
  - State use of drill m/c in garment manufacturing.
  - Specify various sizes in which round knife and straight knife cutting m/cs are available.
  - Give classification of cutting m/cs used in garment industry.
  - Give the method to determine needle number.
  - State the objectives of let-off and take-up devices.
  - State any two differences between lockstitch and chainstitch sewing machines.
  - Enlist the types of overlock m/cs.
  - Define ‘work-aid’.

P.T.O.

- k) Enlist various methods of application of resin.
- l) Define 'top-pressing and under-pressing'.
- m) State any two uses of blind stitch m/c.

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

- a) Explain the factors affecting marker efficiency.
- b) Differentiate between band knife and die cutting m/c.
- c) Sketch a sewing m/c needle and state functions of various parts.
- d) Give functions of –
  - (i) feed dog
  - (ii) tension plate
  - (iii) looper
  - (iv) throat plate
- e) Explain the knife setting (cutter) in overlock m/c.
- f) Brief about construction and working of collar turning m/c.

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

- a) Explain the stitch formation and tensioning mechanism in single needle lockstitch m/c.
- b) Brief about working and use of -
  - (i) any four modified presser feet and
  - (ii) hemmers
- c) Define seam puckering and explain factors responsible for it.

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

- a) Discuss about various types of multiple sized markers.
- b) Explain the construction and working of straight knife cutting m/c.
- c) Give classification of needle according to its cutting point and state its features.

- d) Draw a line diagram to show threading in 5-thread overlock m/c.
- e) Discuss the 'differential feed mechanism'.
- f) Explain construction and working of fusing m/c.

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

- a) Enlist any four faults due to defective needles.
- b) Give the procedure to adjust tension for each thread in 5-thread overlock m/c.
- c) Draw a threading diagram for flatlock m/c.
- d) Explain construction and working of vacuum press table.
- e) Brief about any four computer aids in garment manufacturing.
- f) Draw a threading diagram for button stitch m/c.

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

- a) Illustrate equal and stepped spread and explain automatic spreading m/c.
  - b) Enlist any four cutting defects and suggest remedial measures for the same.
  - c) Write a note on 'feed mechanisms in sewing m/c'.
-