

# 17574

**11920**

**2 Hours / 50 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.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any SEVEN of the following: **14****
- State objectives of CAD-CAM.
  - Enlist the CAD CAM softwares used for apparel manufacturing.
  - Write functions of 'digitiser'.
  - What is the 'Grade rule'?
  - Define Grading. Enlist types of grading.
  - What is CAM?
  - Write names of machine - softwares used in CAM.
  - What is 'Optimizing markers'?
  - What is the 'Texture mapping'?
  - Write the benefits of 3D scanning technology.

P.T.O.

- 2. Attempt any FOUR of the following:** **12**
- a) Explain computer grading techniques.
  - b) Write down the steps of digitising process.
  - c) How is flared skirt constructed by dart manipulation? Explain.
  - d) Develop marker plan for children's A-line frock and calculate marker efficiency for fabric width of 36".
  - e) Write about automated layout planning by various techniques.
  - f) Explain computerized fabric spreading and cutting.
- 3. Attempt any FOUR of the following:** **12**
- a) Compare between manual and CAD systems.
  - b) Describe the use of CAD CAM in garment industry.
  - c) Write a note on Nester Technology.
  - d) Write down drafting steps for any basic pattern in women's wear.
  - e) Explain working of digitiser machine.
  - f) Explain process of 2D to 3D conversion technology.
- 4. Attempt any FOUR of the following:** **12**
- a) Write a note on 'Gerber Technology' used in spreading.
  - b) Explain about tools used in computerized marker making.
  - c) Write the advantages of computerized marker making system.
  - d) Explain computer aided manipulation for bell bottom trouser.
  - e) Explain drape evaluation of 3D garment simulation in brief.
  - f) Compare between 2D and 3D scanning.
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