

17574

21819

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

Marks

1. Explain the following terms in short any SEVEN: 14
- CAD CAM concept
 - Gerber technology
 - 'T' square.
 - Computerized grading
 - Pattern construction techniques.
 - Marker making.
 - Spreading Techniques.
 - 3D simulation
 - Texture mapping
 - Benefits of 3D Scanning Technology.

P.T.O.

- 2. Attempt any FOUR of the following:** **12**
- a) History of CAD-CAM.
 - b) Drafting steps of the A-line frock with the help of CAD drafting software.
 - c) CAD CAM tools used in reach CAD software.
 - d) Computerized fabric spreading machine
 - e) Computerized fabric cutting machines.
 - f) 2D to 3D conversion technology.
- 3. Attempt any FOUR of the following:** **12**
- a) State the importance of CAD CAM in apparel industry.
 - b) Draw a diagram & explain computer aided manipulation steps for bell bottom trouser
 - c) Define 'digitizing' give its importance.
 - d) Define CAM. give its functions.
 - e) Describe the term-fabric widths and material utilization.
 - f) Illustrate fitting of 2D patterns on 3D body forms with relevant example.
- 4. Attempt any FOUR of the following:** **12**
- a) Compare manual and CAD system.
 - b) Describe the hardware used in CAD-CAM.
 - c) Explain computer grading techniques.
 - d) Describe step by step digitizing process.
 - e) Elaborate the techniques used while digitizing large patterns.
 - f) Distinguish between planning makers and optimizing markers.
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