

17574

15116

2 Hours / 50 Marks

Seat No.

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- Instructions :** (1) All Questions are *compulsory*.  
(2) Illustrate your answers with neat sketches wherever necessary.  
(3) Figures to the right indicate full marks.  
(4) Assume suitable data, if necessary.  
(5) Use of Non-programmable Electronic Pocket Calculator is permissible.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FOUR :**

**16**

- (a) Explain the concept and history of CAD/CAM.
- (b) Compare manual process v/s. CAD system in
  - (i) Designing
  - (ii) Pattern making
- (c) Explain computerized fabric spreading and cutting. List its benefits.
- (d) State benefits of 3D scanning technology.
- (e) Explain texture mapping with example.
- (f) Explain features of MMS software for marker making.

**2. Attempt any FOUR :**

**16**

- (a) Explain Gerber technology and Nester. State its use.
- (b) Explain use of CAD-CAM in pattern grading.
- (c) How markers are optimized ?
- (d) Explain automated layout planning with any one technique.
- (e) Explain the process of conversion technology from 2D to 3D with one example.
- (f) How drape evaluation of 3D garment simulation is performed ?

**P.T.O.**

**3. Attempt any THREE :****18**

- (a) What is computer digitizing ? Explain digitizing a large pattern piece with suitable example.
  - (b) What is computer pattern grading ? Explain grade rules and techniques.
  - (c) Explain various commands and tools available in GGS software for grading.
  - (d) What is computer aided manipulation of patterns ? Explain flared skirt constructed by dart manipulation with sketch.
  - (e) Explain techniques for construction of pattern shapes.
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