

Name :

Roll No. :

Invigilator's Signature :

**CS/B.Tech (APM)/SEM-6/APM-602/2010
2010**

CAD / CAM FOR APPAREL PRODUCTS

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

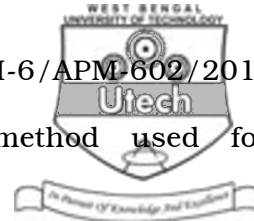
1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) 'Plotter' is an example of
 - a) output device
 - b) input device
 - c) hardware
 - d) both (a) and (c).
- ii) What is the full form of CIPMS ?
 - a) Computer Initiated Planning & Management System
 - b) Computer Integrated Production Management System
 - c) Computer Integrated Planning & Management System
 - d) Computer Integrated Production & Marketing System.



- iii) What is the full form of CAPP ?
- a) Computer Activated Production Process
 - b) Computer Added Production Planning
 - c) Computer Added Production Process
 - d) Computer Aided production Planning.
- iv) 'ERP' stands for
- a) Effective Resource Planning
 - b) Enterprise Resource Planning
 - c) Electronic Resource Planning
 - d) Electronically Revised Process.
- v) Existing design/artwork can be digitized and edited through
- a) texture mapping tool b) crop tool
 - c) pick tool d) clip art tool.
- vi) Computerised cut planning helps to minimize the fabric wastage by
- a) fabric roll allocation
 - b) accurate grading
 - c) 3D-product visualization
 - d) none of these.
- vii) Marker efficiency percentage is determined by
- a) $\frac{\text{Length of fabric used for pattern}}{\text{Total available length of fabric}} \times 100$
 - b) $\frac{\text{Area of fabric utilized for pattern}}{\text{Total available area of fabric}} \times 100$
 - c) $\frac{\text{Area of fabric utilized for pattern}}{\text{Total area of the marker}} \times 100$
 - d) None of these.



- viii) The type of image processing method used for computerised pattern making is
- a) raster technique
 - b) vector technique
 - c) both (a) and (b)
 - d) none of these.
- ix) The full form of 'GUI' is
- a) Garment Utility Index
 - b) Graphic User Interphase
 - c) General Upgradation Index
 - d) none of these.
- x) Automatic thread trimming is a special characteristic of
- a) computerised cutting machine
 - b) computerised embroidery machine
 - c) plotter
 - d) all of these.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Write short notes on the following :
 - a) 3D-product visualization
 - b) Dart manipulation.
3. Mention the special features of fashion CAD software.
4. Briefly mention about different types of softwares used in modern apparel industry.
5. Illustrate the principles of computerised grading.
6. Mention the application of computer in sewing technology.



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

7. Write short notes on the following :
 - a) Computerised cut planning
 - b) CIM
 - c) Features and benefits of apparel CAD software.
8. Explain how fabric wastage in apparel industry can be minimized by the application of CAD/CAM.
9. Describe different aspects & modules of the 'ERP' in apparel industry.
10. Illustrate the following :
 - a) Detailed flow-chart of process sequence in the apparel industry.
 - b) MRP
 - c) Computerised system for on time order completion.
11. Write short notes on the following :
 - a) CAPP
 - b) Application of computer in knitting technology
 - c) Image processing technique.
12. Explain in detail about the following :
 - a) Application of IT in apparel industry
 - b) Computerised marker planning.

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