

Name :
Roll No. :
Invigilator's Signature :

**CS/B.Tech(APM)/SEM-6/APM-602/2012
2012**

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) Write the full forms of PDS and MTM.
- ii) Plotter is an example of
 - a) Input device
 - b) Output device
 - c) Memory device
 - d) none of these.
- iii) Write the full forms of CAPP & RDBMS.
- iv) Fabric utilization can be improved through
 - a) Cut order planning software
 - b) Fashion CAD software
 - c) ERP software
 - d) none of these.



- v) Which of the followings are a characteristic of fashion CAD software ?
- a) Multi Grading options
 - b) 3D product visualization
 - c) Market planning
 - d) ERP.
- vi) Delay in order processing can be avoided by
- a) ERP
 - b) CAPP
 - c) MRP-I
 - d) all of these.
- vii) Robotics is useful for
- a) CIM
 - b) QRM
 - c) MRP
 - d) both (a) and (b).
- viii) Apparel costing can be done through
- a) Production Planning Software
 - b) Merchandising Manager Software
 - c) Cut Planning Software
 - d) All of these.
- ix) Write the full form of BIOS & OMR.
- x) Which of the followings can be used to create and access a Database package ?
- a) CorelDraw
 - b) Ms-Word
 - c) SQL
 - d) VB.



GROUP - B

(Short Answer Type Questions)

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

2. Make a brief comparison between RAM and ROM.
3. Write short notes on the following :
 - a) Digitizer
 - b) Significances of MRP in Apparel industry.
4. Develop a FLOWCHART algorithm to determine the labour cost for stitching a Men's Formal Shirt. User is supposed to provide the observed time of the job/elements, performance rating %, total allowance % , and hourly wage rate.
5. Explain the principles of Computerised Grading.
6. Develop a FLOWCHART Algorithm for computerized order follow up in apparel industry.
7. Mention the steps involved and tools used in PDS.

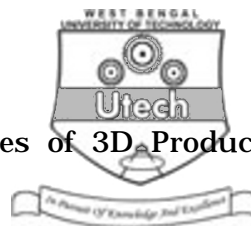
GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

8. a) Develop of FLOW diagram to show the path of information flow in case of a CIM for Apparel manufacturing.
 - b) Illustrate a detailed tree diagram to show different areas of the application of Computer in Apparel Industry. $7 + 8$

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9. a) Explain the advantages and principles of 3D Product Visualization for Apparel Products. 9 + 6
- b) Develop a FLOWCHART algorithm to calculate the total expenditure for overtime payment for the operators in a sewing department for a particular order. 9 + 6
10. a) Develop a FLOWCHART algorithm to illustrate the principle of order concentration chart in Apparel Industry.
- b) Explain different features of Computerised Embroidery. 7 + 8
11. a) Explain the significance of different elements and Modules of ERP system for Apparel Industry. Use suitable Block Diagrams to illustrate the significance.
- b) Explain different Image Processing Techniques.
12. a) Explain the basic principles of Lay lot planning through a suitable flow diagram. Write the features of Cut Planning Software.
- b) What do you mean by finite scheduling ? Mention in brief the different types of finite scheduling. 7 + 8
13. Write short notes on the following : 5 + 5 + 5
- a) Steps involved in Computerized Marker Planning
- b) Application of 3D body scanning in Apparel Industry
- c) Principles of Fabric Roll Allocation.