Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/B.TECH(APM)/SEM-6/APM-602/2011

2011
CAD/CAM FOR APPAREL PRODUCT

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
(Objective Type Questions)

1. Choose the correct alternatives for the following :

    $10 \times 1 = 10$

    i) Write the full forms of PDM and MTM.

    ii) Digitizer is an example of

        a) Input device   b) Output device

        c) Memory device   d) None of these.

    iii) Write the full forms of CIPMS & MRP-II.

    iv) Fabric Inventory Database updating can be done through

        a) Cut order Planning Software

        b) Pattern Making Software

        c) Fashion CAD Software

        d) None of these.

    v) Which of the following is a characteristic of QRM ?

        a) Batch production   b) Cellular Layout

        c) Make through process   d) ERP.

vi) Delay in order processing can be avoided by

   a) ERP   b) CAPP

   c) MRP-I   d) All of these.

vii) Apparel Product Simulation is useful for

   a) Packaging   b) Shipping

   c) Washing   d) Sampling.

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 forms of EEPROM & MICR

x) Which of the following can be used to create and access a Database package ?

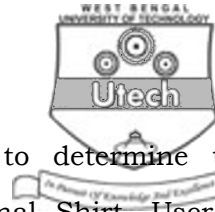   a) CorelDrawl   b) MS-Excel

   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 Primary and Secondary Memory.

3. Write short notes on the following :

   a) Non Impact Printer

   b) 3D Product Visualization.

4. Develop a programme in C-Language 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 pattern making.

6. Develop an Algorithm to make an Order Concentration Chart in Apparel Industry.

7. Mention the features of CIM.

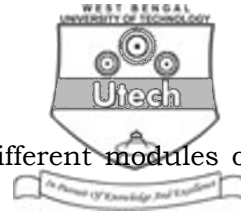## GROUP – C

(Long Answer Type Questions)

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

8. a) Develop an algorithm for optimum fabric Rolls allocation for cut planning and use this algorithm to develop a programme in C-Language.

                         OR

    Illustrate the Algorithm for making Lay Lot Planning.

    b) Illustrate the Algorithm for 3D Product Visualization for Apparel Products.

9. Explain the significance of different elements and modules of ERP system for Apparel Industry. Use suitable Block Diagrams to illustrate the significance.

10. a) Briefly mention the significance of different modules of Fashion CAD Software.

   b) Explain different features of computerised sewing operation.   7 + 8

11. a) Explain the principles of mechanism of 3D Body Scanning.

   b) Explain different Image Processing Techniques.   7 + 8

12. a) Develop a programme in C-Language to calculate the cost involved for paying overtime wages to workers of Garment Washing Section. Assuming that scheduled duration of working = 8 hours, OT rate = Rs. 30 per hour in excess of 8 hours. Users are supposed to enter the total no. of days of OT and total number of workers involved in OT.

   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) MRP-I

   b) Application of Robotics in Apparel Industry.

   c) Feature of Computerised Embroidery Machines.