



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Tech (APM-NEW)/SEM-6/APM-601/2013**  
**2013**  
**APPLICATION OF IT & CAD/CAM IN**  
**APPAREL INDUSTRY**

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. Answer the following questions : 10 × 1 = 10

A) Choose the correct alternatives for the following :

i) Digitizer is an example of

- |                  |                   |
|------------------|-------------------|
| a) input device  | b) output device  |
| c) memory device | d) none of these. |

ii) Product development cycle time can be reduced through

- a) cut order planning software
- b) fashion CAD software
- c) ERP software
- d) marker planning software.



- iii) Which of the following is *not* a characteristic of embroidery CAD software ?
- a) Design memory
  - b) 3D product visualization
  - c) Automatic colour changing
  - d) Visual display of production parameters.
- iv) Delay in order processing can be avoided by
- a) ERP
  - b) CAPP
  - c) MRP-I
  - d) All of these.
- v) Robotics is useful for
- a) CIM
  - b) QRM
  - c) MRP
  - d) Both (a) & (b).
- vi) Optimum selection of fabric rolls can be done through
- a) production planning software
  - b) merchandising manager software
  - c) cut planning software
  - d) all of these.
- B) Answer the questions briefly :
- vii) Write the full forms of CIPMS and SFC.
- viii) Write the full forms of MICR & RDBMS.
- ix) Find the syntax error
- ```
For ( i = 0; j <= n; i ++)  
for ( j = 0; j <= n; j ++)  
s [i] = i * j
```
- x) Mention one example of the application of RFID.



**GROUP – B**

**( Short Answer Type Questions )**

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

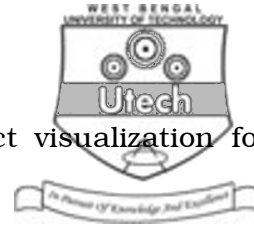
2. Make a brief comparison between impact printer and non-impact printer.
3. Write short notes on the following :
  - a) Computerised grading
  - b) Product simulation.
4. Develop a flowchart to elaborate the algorithm of cut planning software.
5. Mention the basic steps involved in computerised pattern making.
6. Draw a flow diagram to illustrate the path of information flow in a CIM atmosphere in case of garment manufacturing. How it can help the merchandisers to ensure the order completion in time.

**GROUP – C**

**( Long Answer Type Questions )**

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

7. a) Develop a programme in C language to calculate the labour cost of a sub-process in garment manufacturing.
- b) Illustrate a detailed tree diagram to show different areas of the application of computer in apparel industry. 7 + 8



8. a) Explain the principles of 3D product visualization for apparel products.
- b) What are the different modules of ERP system ? Mention the required input informations and desired output informations/reports of each of those modules. 9 + 6
9. a) Develop a flowchart algorithm to illustrate the principles of order concentration chart/order summary in apparel industry.
- b) Explain how computerised embroidery machines can improve the productivity and design accuracy. 7 + 8
10. a) What are the different elements of RDBMS ? Make a suitable format which can be used to maintain a Database for cutting section of an apparel industry.
- b) Draw a flow diagram to show the path of information flow in case of order processing / order follow up software in garment merchandising. 9 + 6
11. a) What do you mean by 'Fabric Rolls Allocation' in case of lay lot planning ? Explain how it can improve the fabric utilization.
- b) What do you mean by finite scheduling ? Mention in brief the different types of finite scheduling. 7 + 8

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