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 × 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 illustrte 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 × 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