

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE- APRIL 2018.

DESIGN AND STRUCTURE OF FABRICS
[Graph paper should be supplied]

(Maximum Marks : 100)

Time : 3 Hrs

PART-A
[Maximum marks: 10]

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. State what is lifting plan.
2. Mention the least size and next size of Brighton's honey comb.
3. State the purpose wire pick.
4. List the different types of ties in double cloth.
5. List the different methods of producing crepe design. [5X2=10]

PART - B
[Maximum Marks : 30]

II Answer any five of the following questions . Each question carries 6 marks.

1. Explain with an example the features and uses of skip draft.
2. Construct an irregular weft sateen on 6 threads.
3. Draw an ordinary honey comb on 6 threads and show the draft and lifting plan.
4. Construct a plain back velveteen on 8 ends.
5. Draw the thread diagram and design for double cloth on 8 ends.
6. Sketch the design draft and denting plan for 3x3 mock leno.
7. Explain the importance of extra warp and extra weft figuring in ornamentation of fabrics.

[5x6 =30]

PART - C
[Maximum marks : 60]

[Answer one full question from each unit. Each full question carries 15 marks]

UNIT I

- III (a) Construct a diamond weave on 16 ends. [8]
- (b) Draw a 4x4 fancy mat weave and show the method of denting. [7]

OR

- IV (a) Construct a regular warp rib and weft rib and mat design on 8 threads. (8)
(b) Construct a horizontal zig-zag design by combining base twills repeating on 8 threads. (7)

UNIT- II

- V (a) Sketch the base and pile weave and develop design for a 2/2 twill backed velveteen. (8)
(b) Develop a Brighton's honey comb on 16 threads. (7)

OR

- VI (a) Sketch the thread diagram and design for a true warp pile of two pick to a wire and explain the method of formation of pile. (8)
(b) Draw the thread diagram and design for a 4 pick terry pile. (7)

UNIT- III

- VII (a) Construct a 2 pick toilet quilt design. (8)
(b) Draw the thread diagram and design of a Bedford cord in which alternate Picks inter weave with ribs. (7)

OR

- VIII (a) Sketch the design and thread diagram for a fine cut pique. (8)
(b) Construct the thread diagram and design for a tubular cloth. (7)

UNIT – IV

- IX (a) Develop a crepe design by inserting one weave over another. (8)
(b) Draw the various types of doup healds used in cross weaving. (7)

OR

- X (a) Draw the diagram of formation of open shed and cross shed in cross weaving. (8)
(b) Explain the different method of producing crepe fabrics. (7)
