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Sixth Semester B.Tech. Degree Examination, July/August 2022

Fabric Structure and Design - I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the classification of Plain woven cloths with suitable examples. (10 Marks)
- b. Give the construction particulars of the following cloths :
 i) Voile ii) Poplin iii) Crepe iv) denim and v) Sheeting. (10 Marks)

OR

- 2 a. Explain Design , Repeat , Drawing – in – plan , Lifting plan and Denting plan with suitable examples. (10 Marks)
- b. Explain briefly the following : i) Fabric structure ii) Fabric Texture
 iii) Straight draft vi) Pointed draft and v) Herringbone draft. (10 Marks)

Module-2

- 3 a. Describe briefly the various methods and techniques employed in Ornamentation of Plain fabrics. (10 Marks)
- b. What are modification of Plain weaves? Explain with suitable design, draft , L.P and D.P. (10 Marks)

OR

- 4 a. What are salient features of Twill Weaves? How are they designated? Draw a suitable design for balanced and unbalanced twill weave. (10 Marks)
- b. Differentiate Diamond and Diaper weaves. Show the construction of a diamond weave with the use of 2/2 twill weave along with draft and lifting plan. (10 Marks)

Module-3

- 5 a. Compare and contrast Satin and Sateen weaves. Show the construction of 4 – end and 6 – end irregular Sateen weaves. Mention their end uses. (10 Marks)
- b. What are Fancy weaver and Fabrics? Draw a design, special draft , L.P & D.P for a Huck – a – Back weaves. Mention its end uses. (10 Marks)

OR

- 6 a. Differentiate Ordinary Honey Comb with Brighton Honey Comb weaves. Draw a design and draft for a Brighton Honey Comb weave. (10 Marks)
- b. With suitable design, draft L.P and D.P explain the following weaver construction :
 i) Mock Leno weaves ii) Distorted Thread effect. (10 Marks)

Module-4

- 7 a. What are Bedford cord weaves? Draw a design draft, L.P , D.P and Cross section view of a plain Bed ford cord weaves. Mention their uses. (10 Marks)
- b. What are Colour and Weave effects? Explain their classification and applications. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

OR

- 8 a. Explain the construction of Crow's foot and Stepped Twill weaves. (10 Marks)
b. Describe the following weaves : (10 Marks)
i) Dog's tooth ii) Birds eye effect.

Module-5

- 9 a. Describe Light and Pigment theory of Colours. (10 Marks)
b. Explain Colour Harmony and Colour Contrast. (10 Marks)

OR

- 10 a. Describe the following : (10 Marks)
i) Attributes of colour ii) Bases of Arrangement of figures. (10 Marks)
b. Describe the history of Textile design. (10 Marks)

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