

[Total No. of Questions - 5] [Total No. of Printed Pages - 3]
(2125)

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B. Tech 5th Semester Examination
Textile Design and Analysis (NS)
TE-315

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from section A, B, C & D. Section E is compulsory.

SECTION - A

1. (a) Discuss the differences between spun and filament yarn. What is the need of texturising? (6)
- (b) What do you mean by fabric cover? Derive an expression of fabric cover. What are the factors associated with fabric cover. (8)
- (c) Define primary, secondary and tertiary colours with suitable example. (6)

OR

- (a) Discuss various types of fancy yarns and how different effects can be created by using fancy yarn. (6)
- (b) Define the term crimp? What are the factors that affect crimp of a fabric? (6)
- (c) Explain pigment theory. How does it differ from light theory? (8)

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SECTION - B

2. (a) Discuss the basic characteristics of Huck-a-back fabric and its use. (6)
- (b) Mention the loom accessories required for manufacturing a huck-a-back fabric. (6)
- (c) Give the design, draft and peg plan for a huck-a-back fabric. (8)

OR

- (a) What is 'Bedford Cord'? Discuss the basic characteristics of bedford Cord and its end use. (6)
- (b) Classify bedford Cords and mention the accessories required in the loom to manufacture bedford cord. (6)
- (c) Give the design, drafting plan and cross-section for a plain faced bedford Cord. (8)

SECTION - C

3. (a) Discuss the criteria for solution of weaves for combination of different weaves. (10)
- (b) Discuss the various effects produced by simple colour and weave combination. (10)

OR

- (a) How are colours and weave effect classified? (8)
- (b) Discuss step pattern effect and hairline effect with suitable design. (12)

SECTION - D

4. (a) What are characteristics of a pile fabric? Classify various type of pile fabrics. (6)

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- (b) Discuss the process of formation of warp files and extra attachments required in the loom for manufacturing terry pile fabrics. (10)
- (c) What are 'velvet' and velveens? (4)

OR

- (a) What are the major end uses of double cloth and discuss their suitability? (4)
- (b) Discuss with suitable sketches various categories of double cloth depending on their construction. (10)
- (c) Discuss with a design double cloth with wadded warp. (6)

SECTION - E

5. Attempt all questions—

- (i) What do you mean by grindle yarn?
- (ii) What is the purpose of texurising?
- (iii) What is the difference between dye and pigment?
- (iv) What do you mean by tone and tint?
- (v) What is feature of twill weave?
- (vi) Give examples of derivative of twill weave.
- (vii) What is the feature of crepe weave? What is its use?
- (viii) What is the feature of diamond weave?
- (ix) What is the purpose of using waded thread in double cloth?
- (x) What do you mean by loose reed? (2×10=20)