HINDUSTHAN COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
DEPARTMENT OF COSTUME DESIGN AND FASHION
QUESTION BANK (2022-2023) ODD SEM

Course: M.Sc Costume Design & Fashion	**Semester: III**
Subject Code: 21CDP16	**Subject Title: Textile Testing**

Unit – I

SECTION – A (5x4=20 marks)

1. a) Define textile sampling methods [**K1**]
   (OR)
   b) List out the factors affecting textile sampling methods [**K1**]

2. a) Write about the scope of fabric testing [**K2**]
   (OR)
   b) Differentiate biased sampling and random sampling methods [**K2**]

3. a) Explain about the role of humidity in textile sampling [**K2**]
   (OR)
   b) Explain the importance of textile testing [**K2**]

4. a) Discuss the advantages of moisture regain conditioning oven [**K3**]
   (OR)
   b) List the advantages and disadvantages of Shirley moisture meter [**K3**]

5. a) Elaborate on textile testing standards [**K3**]
   (OR)
   b) Trace the factors affecting sample selection for textile testing [**K3**]

SECTION – B (3x10=30 Marks)

6. Examine the selection of samples for testing standard RH [**K3**]
7. Explain the advantages and disadvantages of textile testing [**K3**]
8. Explain about the classification of textile testing [**K4**]
9. Summarize the formula used to measure moisture regain [**K4**]
10. Explain about the moisture regain conditioning oven [**K5**]
11. Discuss the term terminology of textile testing [**K5**]

SECTION – C (1x10=10 Marks)

12. Enumerate about Shirley moisture meter [**K5**]

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Unit – II

SECTION – A (5x4=20 marks)

1. a) List out the importance of textile fibres [**K1**]
   (OR)
   b) Define fibre and tabulate the properties of fibre [**K1**]

2. a) Define fibre maturity and explain the test procedure [**K2**]
   (OR)
   b) Explain Caustic soda swelling method [**K2**]

3. a) Explain about fibre fineness [**K2**]
   (OR)
   b) Discuss the principles of stelometer [**K2**]

4. a) Discuss on the advantages and disadvantages of fibre testing [**K3**]
   (OR)
   b) Explain on the features that affect fibre maturity [**K3**]

5. a) Illustrate the method to examine the fibre fineness [**K3**]
   (OR)
   b) Explain the procedure for testing fibre maturity [**K3**]

SECTION – B (3x10=30 Marks)

6. Explain briefly the test done to evaluate strength of the fibre [**K3**]
7. Determine the trash and lint in cotton using Shirley trash analyzer [**K3**]
8. Explain the working principle of Baer sorter [**K4**]
9. Analyze the properties of fibre testing [**K4**]
10. Discuss the preparation of samples for fabric strength [**K5**]
11. Evaluate the procedure for testing fibre maturity [**K5**]

SECTION – C (1x10=10 Marks)

12. Summarize the relationship between fibre fineness and strength [**K5**]

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Unit – III

SECTION – A (5x4=20 marks)

1. a) Define yarn hairiness and its causes [**K1**]
   (OR)
   b) What is crimp testing [**K1**]

2. a) Explain the working principle of Beesley balance [**K2**]
   (OR)
   b) Select a suitable method to measure yarn twist [**K2**]

3. a) Trace the procedure for Uster standards [**K2**]
   (OR)
   b) Explain about the importance of yarn hairiness [**K2**]

4. a) Explain about yarn testing and its properties [**K3**]
   (OR)
   b) Trace out the twist effects based on direction of twist [**K3**]

5. a) Distinguish direct and indirect numbering system [**K3**]
   (OR)
   b) Differentiate single strength tester & lea strength tester [**K3**]

SECTION – B (3x10=30 Marks)

6. List out the importance of yarn evenness [**K3**]
7. Trace out the yarn faults [**K3**]
8. Trace out the types of instruments used for count determination [**K4**]
9. Explain about black board method used to examine yarn evenness [**K4**]
10. Evaluate yarn evenness using ASTM standards [**K5**]
11. Distinguish single strength tester & lea strength tester [**K5**]

SECTION – C (1x10=10 Marks)

12. Summarize yarn twist and illustrate the direction of twist [**K5**]

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Unit – IV

SECTION – A (5x4=20 marks)

1. a) Define GSM of a fabric and describe the procedure [**K1**]
   (OR)
   b) What calculations are involved in cover factor [**K1**]

2. a) Explain about Shirley air permeability tester [**K2**]
   (OR)
   b) Write the procedure to measure fabric stiffness [**K2**]

3. a) Write the working procedure of fabric water permeability tester [**K2**]
   (OR)
   b) What is mathematically drape-coefficient [**K2**]

4. a) Analyze the reason for pill formation on fabric surface [**K3**]
   (OR)
   b) Explain the process of tearing strength tester [**K3**]

5. a) Elaborate crease recovery of the fabric [**K3**]
   (OR)
   b) Discuss the factors affecting the tearing strength of the fabric [**K3**]

SECTION – B (3x10=30 Marks)

6. Analyze the effect of hairiness on the fabric pilling [**K3**]
7. Discuss the geometrical properties of fabric [**K3**]
8. Outline the precautions to be taken during evaluation of fabric drape [**K4**]
9. Explain the working principle of hydraulic bursting strength tester [**K4**]
10. Evaluate the method of crease recovery [**K5**]
11. Evaluate test done to calculate total handle value of the fabric [**K5**]

SECTION – C (1x10=10 Marks)

12. Distinguish between serviceability and abrasion of the fabric [**K5**]

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Unit – V

SECTION – A (5x4=20 marks)

1. a) List out the toxic chemicals used in textiles [**K1**]
   (OR)
   b) What are eco standards [**K1**]

2. a) What are azo testing [**K2**]
   (OR)
   b) Distinguish advantage and disadvantage of eco textiles [**K2**]

3. a) Write about the need of eco standards in garment processing [**K2**]
   (OR)
   b) Differentiate cotton and organic cotton [**K2**]

4. a) Elaborate eco-friendly textiles [**K3**]
   (OR)
   b) Analyze the need of eco labels and its norms [**K3**]

5. a) Trace out the need for eco testing [**K3**]
   (OR)
   b) Identify textile standards in India [**K3**]

SECTION – B (3x10=30 Marks)

6. Examine the testing of formaldehyde [**K3**]
7. Elaborate on organic cotton [**K3**]
8. Evaluate eco-friendly clothing materials [**K4**]
9. Outline in detail about eco labels in textile industry [**K4**]
10. Analyze the chemicals to be avoided for eco-norms [**K5**]
11. Discriminate in detail about textile standards in India [**K5**]

SECTION – C (1x10=10 Marks)

12. Estimate the need of eco standards [**K5**]

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