Registration Number | | | | | | | |

INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY

Varanasi

Post Diploma in Textile Processing

April/ May - 2026 Semester Examination

(Regulation-2021)

Semester : II Time:3 Hours

Course Code & Title : **PDTP201 Textile Testing & Quality Control** Max Marks: 100

PART-A (10×2=20 Marks)

Answer all the questions within two to three sentences

1. State the reason Why should textile testing be conducted under standard atmospheric conditions?
2. Compare moisture regain and content
3. Write the types of yarn count with suitable example
4. List any two factors affecting yarn evenness.
5. State the effect of yarn twist in fabric properties.
6. Give the merits of Instron strength testing equipment
7. State the principle of tear Bursting strength.
8. How the pill formation in fabric will affect the quality of the fabrics?
9. State the factors influence the thickness of the fabrics
10. How the thicknesses influence the bending length of the fabrics?

PART-B ((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Explain the importance of textile testing in the textile industry. (6)

    B. Explain in details about sampling of fibre, yarn and fabrics. (10)

    (OR)

    C. Discuss the different types of sampling methods. (6)

    D. Explain with neat sketch determination of moisture regain and content for the natural fibres. (10)

12. A. Describe the evenness testing using visual examination method. (6)

    B. Explain with neat sketch working and procedure to determine the warp and weft count by Beesley's balance. (10)

(OR)

C. Compare the merits and demerits of different count testing methods. (6)

D. Discuss in details about the yarn evenness testing by electronic capacitance method. (10)

13. A. Describe the principles of CRL, CRE and CRT with suitable diagram. (6)

B. Explain with neat sketch measurement of twist by straightened fibre method. (10)

(OR)

C. Explain about types of yarn twist and the influence of twist for yarn strength. (6)

D. Discuss in detail about the Lea strength testing machine with suitable diagram. (10)

14. A. Discuss the yarn strength concepts of CSP and RKM. (6)

B. Explain the working of fabric tensile Strength testing with suitable diagram (10)

(OR)

C. Explain the principle of bursting strength tester. (6)

D. Discuss the measurement of abrasion resistance of the fabrics with suitable diagram. (10)

15. A. Discuss the concepts of TQM and QC (6)

B. Explain the measurement of bending length of the fabric with suitable diagram. (10)

(OR)

C. Explain the measurement of crease recovery. (6)

D. Discuss in detail about to determine the drape coefficient of fabric. (10)

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April/ May - 2026 Semester Examination

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Semester : **II** **Time:**3 Hours

Course Code &Title : **PDTP202 Soft Skills & Personality Development** **Max. Marks:**100

PART-A (10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define Soft Skills.
2. What do you mean by Ethics?
3. Write the importance of Self Assessment.
4. What is Attitude?
5. Mention any two objectives of communication.
6. Explain personality.
7. Write any two importance of Management.
8. Mention any two qualities of a good leader.
9. What is Critical Thinking?
10. Write any two concentration techniques for stress management.

PART-B ((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Why goal setting is essential for life and career planning? (6)

B. Explain different types of soft skills needed for an individual to become more efficient professional. (10)

(OR)

C. How do you understand human perception in textile industry? (6)

D. Explain the ways to develop potential and self actualization. (10)

12. A. What do you understand by SWOT Analysis? (6)

B. How to identify the good and bad habits of an individual? (10)

(OR)

C. Explain the types of attitudes and factors affecting attitudes. (6)

D. Write a detail note on Constructive Thinking in exploring and managing challenges. (10)

13. **A.** Explain the process of communication. (6)

B. Describe barriers to effective communication. (10)

(OR)

C. Explain the stages of human growth and behaviour. (6)

D. Describe important theories of personality. (10)

14. **A.** Write the role and importance of management in handloom and textile industries. (6)

B. What is Entrepreneurship? Explain its different types. (10)

(OR)

C. Explain the qualities of a good leader in detail. (6)

D. Describe the nature and importance of management. (10)

15. **A.** Define Stress. Write its different types. (6)

B. Explain the learning as a life-long process (10)

(OR)

C. Explain the mnemonic techniques for critical thinking. (6)

D. What is presentation? Explain the process for preparing an effective presentation. (10)

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Semester : **II** Time:3 Hours

Course Code & Title : **PDTP203 Technology of Dyeing -II** Maximum Marks: 100

PART-A (10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define the term glass transition temperature (T_g).
2. Write the disadvantages of carrier dyeing.
3. What are the advantages of jet dyeing?
4. Define the term reduction clearing treatment.
5. Write the properties of acid dyes.
6. What are the chemical properties of nylon fibers?
7. What are the functions of levelling agent?
8. Write the types of garment dyeing machines.
9. What are the common defects occur in the dyeing process?
10. Write the rating of grey scale for washing fastness.

PART-B **(**(6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Explain the effect of time and thermal energy in dyeing of polyester fabric. (6)
    B. Explain the process difficulties in polyester dyeing compare with cotton fabric dyeing. (10)

(OR)

    C. Explain the methods of heat setting. (6)
    D. Explain the HTHP dyeing of polyester fabric with neat sketch. (10)

12. A. Write the salient features of soft flow dyeing machine (6)
    B. Explain the thermosol method of dyeing of polyester fabric. (10)

(OR)

C. Explain the common defects and damages during polyester dyeing. (6)

D. Explain the construction and working of jet dyeing machine with a neat sketch. (10)

13. A. Explain the molecular structure of polyamide fibers affecting the dyeing behavior? (6)

B. Explain the dyeing process of nylon fabric with metal complex dyes. (10)

(OR)

C. Explain the effect of temperature and pH during dyeing of acrylic fabric. (6)

D. Explain the dyeing process of acrylic fabric using cationic dyes. (10)

14. A. Explain the objectives and advantages of blending. (6)

B. Explain the process sequences of blending of P/C, Acrylic/Wool and P/W (10)

(OR)

C. Explain the functions of exhausting agent, wetting agent and dispersing agent. (6)

D. Explain the construction and working of rotary drum garment dyeing machine. (10)

15. A. Explain the process variables of washing fastness testing. (6)

B. Explain the rubbing fastness property of dyed materials. (10)

(OR)

C. Explain the common defects occur in dyeing and its remedies. (6)

D. Explain the perspiration fastness property of dyed materials. (10)

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Semester : **II** Time:3 Hours

Course Code & Title : **PDTP204 Technology of Printing I** Maximum Marks: 100

PART-A (10×2=20 Marks)

Answer all the questions within two to three sentences

1. State the advantages of printing over dyeing process.
2. Define repeat of design in textile printing.
3. Name the materials used to prepare screens for table screen printing process.
4. State the advantages of block printing process.
5. Mention any two features of rotary screen printing machines.
6. State any two limitations of flatbed screen printing.
7. Name any two thickening agents used in printing paste.
8. State the function of binder in pigment printing.
9. List few natural and synthetic mordants used in cotton printing.
10. State the difference between printing of fabric with pigments and dyes.

PART-B **(**(6+10)×5=80 Marks)

Answer all the questions in detail

11. A. State the difference between textile dyeing and printing process. (6)
    B. Discuss on the sequence of process involved in preparing a fabric for printing in detail. (10)

(OR)

    C. State the advantages and disadvantages of mechanized printing over non-mechanized printing process. (6)
    D. Explain Design, colour, Layout and repeat in printing of Textiles. (10)

12. A. Explain the preparation and handling of blocks used in textile printing. (6)
    B. Describe the principle of making hand screen . (10)

(OR)

C. State the advantages and limitations of hand screen printing over block printing process. (6)

D. Describe the steps involved in preparing a screen for printing process with relevant diagrams. (10)

13. A. Compare the advantages of semi-automatic and fully automatic flatbed screen printing machines with rotary screen printing machines. (6)

B. Describe the construction and working principle of a semi-automatic flatbed screen printing machine with a neat sketch. (10)

(OR)

C. Differentiate rotary screen printing and roller printing based on working and applications. (6)

D. Describe the construction and working of a rotary screen printing machine with a neat sketch. (10)

14. A. Differentiate discharge and resist style of printing process with few examples. (6)

B. Discuss in detail about various ingredients used in print paste formulation . (10)

(OR)

C. Explain the role of oxidizing and reducing agents in discharge printing paste preparation. (6)

D. Describe the after-treatment methods such as steaming, curing, and ageing used in textile printing. (10)

15. A. Discuss the advantages and disadvantages of pigment printing. (6)

B. Describe the printing of cotton fabric with reactive dyes by discharge style for producing white and color discharge prints. (10)

(OR)

C. Explain the pigment process on cotton textile material with a relevant recipe. (6)

D. Describe the printing of cotton fabric using natural dyes and state the sequence of process involved in it. (10)

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