

Scheme - I

Sample Question Paper

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fifth

Course Title : Printing of Synthetic Fibers

Max. Marks : 70

22576

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FIVE of the following.

10 Marks

- a. State the object of Printing.
- b. State the selection criteria of disperse and reactive dyes for printing on p/c blend.
- c. Write the advantages and limitations of disperse-vat system for printing on p/c blend.
- d. Enlist the print paste ingredients with their role for printing on acrylic fabric.
- e. State the selection criteria of disperse dyes based on print fixation method.
- f. State the concept of transfer printing. Enlist various methods of transfer printing.
- g. Classify inkjet printing technology.

Q.2 Attempt any Three of the following.

12 Marks

- a. Explain the print fixation mechanism during pressure steaming and high temperature steaming for polyester.
- b. Explain the mechanism of brasso style of printing on p/c blended fabric with suitable reactions.
- c. Describe with neat sketch, flexographic printing technique.
- d. Explain direct style of printing on polyester with suitable formulation for atmospheric steaming fixation method.

Q.3) Attempt any Three of the following.

12 Marks

- a. Describe direct style of printing on acrylic fabric with typical formulation.
- b. Describe single dye application on p/c blended fabric.
- c. Describe the procedure for direct style of printing on nylon using metal complex dyes.
- d. Explain resist style of printing on Polyester by alkali method.

Q.4) Attempt any Three of the following.

12 Marks

- a. Describe the procedure to develop discharge printing effect on acrylic fabric.
- b. With suitable formulation, explain printing of polyester/ wool blended fabric using disperse-acid dyes.
- c. Describe with neat sketch, Drop on demand inkjet printing.
- d. Explain printing of p/c blended fabric using disperse-reactive system by two phase method.
- e. State and explain, the advantages and disadvantages of pressure steaming and thermofixation methods.

Q.5) Attempt any Two of the following.

12 Marks

- a. Write a note on pigment printing on p/c blended fabric
- b. Describe with sketch, continuous transfer printing machine.
- c. Explain discharge printing on Nylon using disperse dyes with suitable formulation.

Q.6) Attempt any Two of the following.

12 Marks

- a. Explain discharge printing on polyester with suitable formulation. State the precautions taken during discharge printing.
- b. State the characteristics of paper, dye and ink for transfer printing.
- c. Distinguish between inkjet printing and conventional printing.

Scheme - I

Sample Test Paper - I

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fifth

Course Title : Printing of Synthetic Fibers

Max. Marks : 20

22576

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. State the object of Printing.
- b. State the importance of fabric preparation before printing.
- c. Explain the mechanism of print fixation during pressure steaming method.
- d. State the selection criteria of disperse and reactive dyes for printing p/c blended fabric.
- e. State the advantages and limitations of pigment printing
- f. State the process sequence for disperse-vat printing on p/c blended fabric.

Q.2 Attempt any THREE.

12 Marks

- a. Explain direct style of printing on PET with suitable formulation.
- b. Describe resist style of printing on PET by chelation method.
- c. Explain single dye application process on p/c blended fabric.
- d. Write a note on Brasso style of printing.
- e. Describe P/W blend printing with suitable formulation.

Scheme - I

Sample Test Paper - II

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fifth

Course Title : Printing of Synthetic Fibers

Max. Marks : 20

22576

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a. Enlist the print paste ingredients for direct style of printing on acrylic fabric.
- b. Write the flow chart of preparation of nylon fabric for printing
- c. State the concept of heat transfer and melt transfer printing.
- d. State the mechanism during film release transfer and vapour transfer.
- e. State the advantages of transfer printing over conventional printing.
- f. Enlist two discharging agents with their chemical formulae.

Q.2 Attempt any THREE.

12 Marks

- a. Explain direct style of printing on acrylic fabric using disperse dyes with suitable formulation.
- b. Explain discharge style of printing on nylon using metal complex dyes.
- c. With neat sketch, explain working of Gravure printing.
- d. State the characteristics of paper and ink for transfer printing.