

**4th Sem./ Textile Processing**  
**Subject : Dyeing of Synthetic and Blended Textiles**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory  
(6x1=6)

Q.1 The fibre belonging to polyamide is

- a) Cotton
- b) Acetate
- c) Nylon
- d) Polyester

Q.2 Acrylic is a

- a) Regenerated fibre
- b) Metallic fibre
- c) Natural fibre
- d) Synthetic fibre

Q.3 The fibre obtained from worm is

- a) Cotton
- b) Acetate
- c) Silk
- d) Polyester

Q.4 Wool is a

- a) Regenerated fibre
- b) Mineral fibre
- c) Animal fibre
- d) Vegetable fibre

Q.5 Basic dyes are  
 a) Anionic dyes      b) Cationic dyes  
 c) Non ionic dyes    d) None of these

Q.6 Nylon fibre belongs to  
 a) PAN                  b) PET  
 c) Polyamide            d) Polyacrylonitrile

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

Q.7 Dyeing of one of fibre in a blend by single colour is known as \_\_\_\_\_

Q.8 P/C is mixture of \_\_\_\_\_ and \_\_\_\_\_

Q.9 Dyeing of both fibre in a blend produce \_\_\_\_\_

Q.10 P/C/W is an example of \_\_\_\_\_ blend.

Q.11 Cotton portion in p/c blend is having affinity for \_\_\_\_\_ (disperse/reactive) dye

Q.12 Naturals fibres are \_\_\_\_\_ (difficult/easy) to dye than natural fibre.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

Q.13 Mention any three principles of dyeing.

Q.14 What is tailing? Where does it occur?

Q.15 What is moire? What are its causes? (any two)

Q.16 Define blending? Why is it done?

Q.17 Write about P/C blend. (4 points)

Q.18 How will you dye C/W blend with Direct /Acid dye in two bath method?

Q.19 Write about P/V blend. (4-5 Points)

Q.20 Briefly explain any two advantages of blend.

Q.21 What are disperse dyes? Name its types.

Q.22 How does carrier help in polyester dyeing?

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

Q.23 Explain Winch dyeing machines with neat diagram, principle and construction?

Q.24 Explain any cheese dyeing machines with neat diagram, principle and working?

Q.25 Explain dyeing of P/C with any combination of dye with complete dyeing procedure?