

**Avinashilingam Institute for Home Science and Higher Education for Women
[Deemed to be University] Coimbatore-641 043**

Bachelor's Degree Examination – November 2018

III Semester

**Class : II UG
Major : Textiles and Apparel Designing**

**Time: 3 hours
Max. Marks: 100**

15BTDC12 Textile Dyeing and Printing

Part-A

10 x 1=10

Choose the correct answer

1. Select the natural dye among the following
a) Direct dye b) Disperse dye c) Indigo dye d) Acid dye
2. Which is the insoluble dye among the following?
a) Vat dye b) Reactive dye c) Direct dye d) Acid dye
3. Indicate the process which removes only the unwanted oily impurities
a) Mercerizing b) Scouring c) Singeing d) Degumming
4. Pick up the bleaching agent which forms sludge during the bleaching process
a) Hydrogen peroxide b) Sodium hypochlorite
c) Sodium chlorite d) Calcium hypochlorite
5. Identify the use of mordant .
a) Dissolves the dye b) Removes the dye
c) Bridge textile and dye d) Increases the dye uptake
6. Select the natural dye available from seed
a) Pomogranate b) Myrobalan c) Turmeric d) indigo
7. The printing process is otherwise called as
a) Full Dyeing b) Full finishing c) Faded dyeing d) localized dyeing
8. Indicate the important after treatment in reactive printing on cotton fabrics.
a) Steam / Fix b) Wash / Dry c) Dry / Cure d) Cure / Set
9. Choose the printing process suitable for continuous operation.
a) Block b) Rotary c) Stencil d) Batik
10. Identify the printing screen which is constructed by metal.
a) Rotary b) Flat bed c) Table d) Roller

Part B

5 X 6=30

Answer the following

Answer should not exceed 400 words or two pages

11a. With examples, justify the advantages and disadvantages of synthetic dyes.

(or)

11b. Discuss the important aspects of sulphur dyes and write its properties.

12a. Justify the importance of scouring of cotton fibre substrates.

(or)

12b. What is mercerizing? How does this process useful for the textile materials?

13a. Describe the important characteristics associated with natural dyes.

(or)

13b. Explain, how mordant plays an important role in the natural dyeing process?

14a. Specify the important aspects of resist printing with a suitable example.

(or)

14b. Discuss in short about stencil printing and air brush painting.

15a. Specify the importance of jet spray printing operation in a suitable way.

(or)

15b. Give a neat description about the electrostatic printing process.

Part C

5 x 12=60

Answer the following

Answer should not exceed 800 words or four pages

16a. Explain suitably regarding the properties and applications of basic dyes.

(or)

16b. Justify in a suitable manner, why are vat dyes preferred for cotton dyeing?

17a. Explain in a suitable manner, why is hydrogen peroxide preferred for cotton bleaching?

(or)

17b. Explain about the important considerations adapted for yarn dyeing technique.

18a. Summarize the history of importance of natural dyes in the textile dyeing.

(or)

18b. What is simultaneous mordanting technique? Why is this technique preferred over other techniques?

19a. With suitable examples, narrate about the performances of discharge printing and resist printing processes.

(or)

19b. Explain the printing processes using block and plangi dyeing.

20a. Elaborate the printing process performed in the rotary screen printing machine.

(or)

20b. Specify the transfer printing process with the suitable explanations.