

BT-7/D-19 37092
ADVANCED CHEMICAL PROCESSING .
(NEW).
TT-417

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt Five questions in all, selecting at least one question from each Section. All questions carry equal marks.

Section A

1. (a) Discuss the uses of enzyme in wet processing. Explain its used for stone washing. 10
(b) Explain the uses of super critical carbon dioxide for dyeing of polyester. 10
2. Describe the procedure and grading methods for evaluation of dyed textile material for fastness to washing and fastness to light. 20

Section B

3. (a) Discuss zero formaldehyde finishes. Why are they needed ? 10
(b) Describe digital printing mentioning its merits and demerits. 10
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4. Illustrate the following .
(a) Breathable water proof fabrics
(b) Antimicrobial finishes on textiles. 10>0

Section C

5. (a) Define scattering of light. Describe source of natural and artificial light. 10
(b) Differentiate between additive and subtractive mixing. 10
6. Write notes on the following :
(a) Tristimulus values
(b) Chromaticity coordinates.

Section D

7. (a) Describe spectroscope curves and their relationship to perceived colour. 10 (b) Discuss principle and application of colorimeter. 10
8. (a) What is Recipe Prediction ? Discuss some of its application.
(b) Describe munsell system of colour specification. 10x2

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