

22470

12425

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) State four pre-treatments given to 100% cotton, woven fabric.
- (b) List the faults present in grey fabric.
- (c) Define the term 'percentage shade'.
- (d) State any four properties of Sulphur dyes.
- (e) List out different methods of dyeing polyester using disperse dyes.
- (f) State objectives of printing.
- (g) Enlist any four novel printing methods.

2. Attempt any THREE of the following :

12

- (a) Describe method for Enzyme desizing of cotton with its merits and demerits.
- (b) Explain with neat diagram, working of jigger machine.
- (c) Describe dyeing of 100% polyester fabric of H.T.H.P. dyeing method.
- (d) Differentiate between dyeing and printing.



3. Attempt any THREE of the following : 12

- (a) Describe with neat sketch, construction and working of gas singeing machine.
- (b) Describe dyeing procedure for 100% polyester fabric by using thermosol method.
- (c) Describe procedure for direct style printing of cotton by using reactive dye.
- (d) Describe the process for magic printing on fabrics.

4. Attempt any THREE of the following : 12

- (a) Explain mechanism of hydrogen peroxide bleaching method of cotton.
- (b) Describe method for evaluation of the efficiency of scouring.
- (c) Suggest process parameters and print paste recipe for direct printing of polyester with disperse dye.
- (d) Describe the procedure to create fluorescent prints effect on garment. State the salient features of fluorescent printing.
- (e) Suggest the process and parameters for flock printing of cotton.

5. Attempt any TWO of the following : 12

- (a) A fabric rolls of 100 m long and 150 cm width contain following defect :
2 defects up to 3 inches, 2 defects from 3-6 inches, 1 defect from 6-9 inches, 1 defect above 9 inches. Decide fabric should be accepted or rejected if a selection criterion is 20 point/100 m².
- (b) Describe dyeing of silk with acid with process parameters.
- (c) Suggest process parameters and dyeing procedure to get 'cross dyeing' on polyester/cotton blended fabric.

6. Attempt any TWO of the following :

12

- (a) Suggest process parameter for dyeing of cotton with cold brand reactive dyes.
 - (b) Explain the important print paste ingredients and their functions used for cotton fabric printing.
 - (c) Explain “Brasso printing” with typical print paste formulations.
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