22367

23242

3 Hours / 70 Marks Seat No. | | | | | | | | |

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.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE : **10**

(a) Enlist any four objectives of grey inspection department.

(b) Recite the classification of colouring matter.

(c) State the reason for naming of direct dyes.

(d) List the classification of acid dyes based on acid used in the dye bath.

(e) Memorize any four properties of metal complex dyes.

(f) Compare between batch process and continuous process (any two points).

(g) Enlist different methods of printing.

2. Attempt any THREE : **12**

(a) Illustrate with a neat labelled diagram, scouring of cotton fabric by using a vertical pressure kier.

(b) Explain with neat labelled flow chart, the procedure for processing of P/C blended fabric.

(c) Illustrate with a recipe, the procedure of printing P/V blended fabric using pigments.

(d) Describe with a neat labelled diagram, sanforizing of 100% cotton fabric.

3. Attempt any THREE : **12**

(a) Illustrate with proper recipe & reaction, the procedure of dyeing silk using basic dyes.

(b) Illustrate with proper formulation, the procedure of printing cotton fabric using reactive dyes by direct style.

(c) Differentiate between discharge style and resist style of printing (any four points).

(d) Describe with proper formulation, the procedure for crease resistant finishing of 100% cotton poplin fabric.

4. Attempt any THREE : **12**

(a) Outline the dying procedure of 100% polyester fabric by HTHP method with the help of a dying ramp (Time temperature profile).

(b) Describe with a neat time temperature profile, the procedure of dyeing wool fabric using acid dyes.

(c) Describe the technical features of a washer used in printing department.

(d) Describe the mode of action of a flame retardant finish when applied to 100% cotton fabric.

(e) Describe the features of a modern Stenter.

5. Attempt any TWO : **12**

(a) Describe with neat sketch, the gas singeing process of 100% cotton fabric. Also enlist the precautions to be taken while starting and stopping gas singeing machine.

(b) Compare the batch wise and continuous bleaching of 100% cotton using CBR and soft flow machine.

(c) Compare the different types of vatting systems used in the application of vat dyes on 100% cotton fabric.

6. Attempt any TWO : **12**

(a) Compare the dyeing of 100% nylon fabric using disperse dyes, acid dyes and reactive dyes & write the special feature of each dyeing method.

(b) Compare the objective of using different types of squeezes in the printing of cotton on rotary screen printing machine.

(c) Compare the various finishing effects (on 100% cotton) that can be achieved on a calendering machine with the help of a neat diagram.
