

22367

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 the objectives of grey inspection.
- (b) Enlist the machines used for bleaching.
- (c) Give classification of vat dyes based on temperature parameter.
- (d) Classify methods and styles of printing.
- (e) State the objective of Printing.
- (f) Enlist the dyes used for dyeing of nylons.
- (g) State the objectives of textile finishing.

2. Attempt any THREE of the following :

12

- (a) Draw a neat sketch of two cutter shearing and cropping machine and explain its working.
- (b) Explain wet process sequence for P/C blended fabrics.
- (c) Classify the colouring matters based on its application.
- (d) Describe with neat sketch, the construction of flat bed screen printing machine.



- 3. Attempt any THREE of the following : 12**
- (a) With a neat sketch explain the working of gas singeing machine.
 - (b) Explain with flow chart preparatory processes of PET fibres.
 - (c) Explain method of dyeing cotton with direct dyes.
 - (d) Describe dyeing of polyester fabric by using carrier dyeing method.
- 4. Attempt any THREE of the following : 12**
- (a) “Reactive dyes chemically react with Cellulose fibre in presence of alkali.” Justify the statement.
 - (b) Explain dyeing of wool using acid dye.
 - (c) Justify – “H.T.H.P. method of dyeing polyester is preferred to carrier dyeing in the industry.”
 - (d) With a typical print paste recipe explain printing of cotton with direct dye by direct style.
 - (e) State the purposes of calendering.
- 5. Attempt any TWO of the following : 12**
- (a) Justify - dyeing of polyester is very difficult as compare to dyeing of natural fibres.
 - (b) Binders play very important role in pigment printing. Justify the statement.
 - (c) Elaborate with neat sketch, the various effects achieved by using Decatising machine.
- 6. Attempt any TWO of the following : 12**
- (a) Write down the print paste recipe and procedure for printing of cotton using reactive dyes by direct style.
 - (b) Classify softeners with examples. Also compare cationic softeners with reactive softeners w.r.t. mode of action.
 - (c) Write down the objects, requirements and mechanism of antimicrobial finishing of textiles.
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