

17466

21415

3 Hours / 100 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.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager any any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: 20
- a) Why are direct dyes so called? Give the classification of direct dyes.
 - b) Write the distinct steps required in the application of azoic colours on cotton.
 - c) Describe the terms:
 - (i) Exhaustion
 - (ii) Affinity

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- d) With a neat labelled diagram, explain the construction and working of padding mangle.
- e) What are various styles of printing? Explain one of them.
- f) Give the procedure for optical brightening treatment on cotton.
- g) Give brief classification of finishing processes.

2. Attempt any TWO of the following:

16

- a) Give the procedure of dyeing of polyester using disperse dyes by:
 - (i) Carrier method and
 - (ii) HTHP method
- b) With a neat labelled diagram, explain the construction and working of package dyeing machine. Also write four advantages and four limitations of package dyeing machine.
- c) Give the recipe and procedure of printing cotton fabrics using reactive dyes by using:
 - (i) Direct style and
 - (ii) Discharge style of printing.

3. Attempt any TWO of the following;

16

- a) Write the procedure of dyeing cotton using:
 - (i) Vat dyes
 - (ii) Sulphur dyes
- b) With a neat labelled diagram, explain the principle and working of roller printing machine.
- c) (i) State the object of resin finishing on cotton and explain the procedure.
(ii) Explain the object of heat setting process.

4. Attempt any TWO of the following:**16**

- a) Explain the procedure of dyeing acrylic fibres using:
 - (i) Cationic dyes
 - (ii) Disperse dyes
- b) With a neat labelled diagram, explain the construction and working of jigger dyeing machinery used for dyeing cotton. Write the advantages and limitations of the same.
- c) With neat labelled diagram, explain the various finishing effects achieved by using calendering machines.

5. Attempt any TWO of the following:**16**

- a) Explain the procedure of dyeing polyester / cotton blended fabric using disperse and reactive dyes.
- b) Enlist and explain the function of various ingredients used in the printing of textiles (at least six)
- c) State the object of:
 - (i) Waterproof finishing
 - (ii) Flame retardant finishingAlso explain procedure for application.

6. Attempt any TWO of the following:**16**

- a) Explain construction and working of Jet-Dyeing machine with neat sketch. Also give its advantages.
 - b)
 - (i) Draw a neat outline diagram of a rotary screen printing machine.
 - (ii) Write the recipe and procedure of printing cotton using vat dyes by discharge style.
 - c) With neat labelled diagram explain working of:
 - (i) Stenter
 - (ii) Drying range
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