

# 17466

**15116**

**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 and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE of the following:**

**20**

- a) Give brief classification of dyes.
- b) Why azoic colours are called as ingrain colours? Enlist the azoic dye ingredients.
- c) Describe the term:
  - (i) % shade
  - (ii) MLR and give one example each
- d) Enlist the names of machineries used for fabric dyeing.
- e) Describe the objects of printing.

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- f) Differentiate between chemical finishing and mechanical finishing.
- g) Describe various objects of calendering treatments.

**2. Attempt any FOUR of the following: 16**

- a) Give the method of dyeing of cotton with cold brand reactive dyes.
- b) Explain the role of salt in dyeing of cotton and acrylic.
- c) What is vatting? Enlist the chemicals used in vatting process.
- d) Write the procedure for dyeing of Nylon with disperse dyes.
- e) With neat sketch explain working of Jigger dyeing machine.
- f) State advantages and limitations of package dyeing machines.

**3. Attempt any FOUR of the following: 16**

- a) Describe dyeing of acrylic fiber with cationic dyes.
- b) Write and justify the sequence for dyeing of PLC blend with dispersed reactive dyes by two bath method.
- c) Explain the procedure for direct dyeing of cotton with dyeing profile.
- d) With neat sketch explain working of padding mangle.
- e) What are the advantages and limitations of winch dyeing machine.
- f) With neat sketch, explain working of Jet dyeing machine.

- 4. Attempt any FOUR of the following:** **16**
- a) With neat sketch explain working of jigger dyeing machine.
  - b) Enlist the printing ingredients and state their functions.
  - c) Describe importance of steaming during printing process.
  - d) Explain the object of soil release finishing with one formulation.
  - e) With neat sketch explain working of starter.
  - f) State object of water proof treatment also give one formulation.
- 5. Attempt any FOUR of the following:** **16**
- a) Describe direct style of printing with direct dyes.
  - b) With neat sketch, explain working of roller printing machine.
  - c) What is Rongalite C? Explain its role in discharge printing.
  - d) With neat sketch explain working of vertical drying range.
  - e) Explain the object of flame retardant finishes and give one formulation.
  - f) State and explain objects of heat setting of synthetic fibres.
- 6. Attempt any FOUR of the following:** **16**
- a) Describe Pigment printing process.
  - b) What is resist style of printing give one formulation.
  - c) Give any four advantages and limitations of rotary printing machine.
  - d) Explain the objects of optical brightening agent treatment and give one method for it.
  - e) What is mercerisation? Enlist four advantages.
  - f) With neat sketch explain working of sanforising machine.
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