



17458

11819

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.

Marks

1. Attempt **any five** of the following : **20**
 - a) Explain object of preparatory processes.
 - b) Give brief classification of desizing method.
 - c) Describe the terms :
 - i) % shade
 - ii) Exhaustion.
 - d) Draw neat labelled diagram of Jigger dyeing machine.
 - e) Differentiate between dyeing and printing.
 - f) Explain the flock printing process.
 - g) Explain the importance of evaluating fastness properties.
2. Attempt **any two** of the following : **16**
 - a) List the impurities present in grey fabric. Also explain importance of grey inspection along with criteria for rejection.
 - b) Explain enzyme desizing of cotton. State its advantages.
 - c) Describe the process for dyeing cotton with cold brand reactive dyes.
3. Attempt **any two** of the following : **16**
 - a) With outline diagram, explain continuous scouring and bleaching process with hydrogen peroxide.
 - b) Explain dyeing of polyester by MTHP method.

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- c) Explain :
- i) Measurement of whiteness index using CCM.
 - ii) Working of padding mangle.
4. Attempt **any two** of the following : 16
- a) Explain the concept of thermosol method. Also explain the method for carrying out thermosoling on polyester fabrics.
 - b) Enlist the print paste ingredients and explain their functions.
 - c) Explain the working of rotary printing with outline diagram.
5. Attempt **any two** of the following : 16
- a) What is tie and dye ? Explain the process to produce tie and dye print on cellulosic fabric.
 - b) With neat outline diagram explain working of flat bed printing machine.
 - c) Describe the procedure for evaluating wash fastness.
6. Attempt **any two** of the following : 16
- a) With neat sketch explain working of Winch dyeing machine.
 - b) Explain the method to produce foil printing.
 - c) Describe the term 'Sublimation'. Explain the method to evaluate sublimation fastness.
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