

17458

11920

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.

Marks

1. Attempt any FIVE of the following :

20

- (a) Describe the impurities present in grey fabric.
- (b) State objects of shearing and cropping.
- (c) Describe the terms :
 - (i) % expression
 - (ii) % shade
- (d) With neat sketch, explain working of padding mangle.
- (e) Differentiate between dyeing and printing.
- (f) State advantages of rotary printing machine.
- (g) Why fastness properties of textile goods should be evaluate ? Explain.

2. Attempt any FOUR of the following : 16

- (a) State object of grey inspection. Also enlist the machines used for it.
- (b) State object of mercerisation. Also state its advantages.
- (c) Classify desizing methods.
- (d) Explain the procedure for dyeing of cotton with direct dyes.
- (e) State advantages and limitations of vat dyes.
- (f) With neat sketch explain working of padding mangle.

3. Attempt any FOUR of the following : 16

- (a) State object of scouring. Enlist the chemicals used for scouring process.
- (b) Why hydrogen peroxide is called as universal bleaching agent ? State its four advantages.
- (c) Describe enzyme desizing method on cotton.
- (d) Explain process for cold brand reactive dyeing on cotton.
- (e) State two advantages and limitations of natural dyes.
- (f) Explain the process for thermosol dyeing of polyester.

4. Attempt any FOUR of the following : 16

- (a) Enlist any four printing ingredients and state their functions.
- (b) Describe discharge style of printing. Enlist the names of reducing agent used for it.
- (c) Describe the process of 'tie and dye' printing.
- (d) With neat sketch explain working of flat bed printing machine.
- (e) Explain the process of flock printing. State its advantages.
- (f) What is inkjet printing ? Describe its concepts.

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

- (a) What is resist style of printing ? Explain with one example.
- (b) Differentiate between block printing and screen printing.
- (c) Explain method of pigment printing.
- (d) Compare rotary printing with flat bed printing machine.
- (e) What is foil printing ? State its limitations.
- (f) With neat sketch explain working of table printing.

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

- (a) Which tests are carried out to evaluate colour fastness of textile substrate ? State their importance.
 - (b) Describe the method for evaluation of wash fastness.
 - (c) What is sublimation of dyes ? Describe the procedure to evaluate sublimation fastness.
 - (d) What is CCM ? How whiteness index measures by using this system ?
 - (e) Describe the method for dyeing of P/C blended fabric.
 - (f) Explain batik style of printing.
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