

315391

12526

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) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Use of Non-programmable Electronic Pocket Calculator is permissible.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following :** **10**
- a) Define ‘primary colours’ and List the names.
 - b) State the advantages of Computer colour matching system
 - c) Define the term “Standard Observer.”
 - d) Define the term “Metamerism”
 - e) Define ‘K/S’ value
 - f) State formula to calculate total colour difference.
 - g) State the formula for “whiteness index.”
- 2. Attempt any THREE of the following :** **12**
- a) Differentiate between “Additive and Subtractive” colour mixing.
 - b) State the advantages of numerical standard over physical standards.

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- c) List the steps in process of computer colour matching for blended fabrics.
- d) State advantages and limitations of computer colour matching.

3. Attempt any THREE of the following : 12

- a) Describe basic components of spectrophotometer.
- b) Describe the various types of metamerisms.
- c) Describe the process of K/S data generation.
- d) Describe working of shade sorting application.

4. Attempt any THREE of the following : 12

- a) Describe the features CIE system.
- b) Explain the importance of sample preparation for colour standards.
- c) Explain the significance of metamerism.
- d) Justify the importance of trial dyeing for recipe formulated by CCM.
- e) Describe the importance of 'shade library' application of CCM.

5. Attempt any TWO of the following : 12

- a) Explain the construction and working of single beam spectrophotometer.
- b) Explain the CIE Lab colour specifications.
- c) Explain the method to find whiteness and yellowness index on CCM.

6. Attempt any TWO of the following : 12

- a) Explain the salient features of modern spectrophotometer.
 - b) Explain the process and the application of batch correction program of the CCM.
 - c) Explain the method analyse colour strength of dyed sample.
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