

Use separate answer
book for each group

Bachelor in Design (B.Des) Examination, 2015
Specialization in Textile & Clothing
Semester - VI
Paper - TC-VI/04
(Textile Technology-II)

Time : Three Hours

Full Marks : 40

Questions are of value as indicated in the margin.

Group - A

Answer **any two (2)** questions.

1. (a) Define simple and compound fabric structure. Give two examples of each category.
(b) Show weaving plan of any two of the following weaves on the graph paper provided:
(i) Devon Huck-a-back
(ii) Distorted thread effect
(iii) Honeycomb weave with a suitable repeat size. 3+7=10
2. (a) What do you mean by combined weaves? Give three examples.
(b) What are the various methods of producing crepe effect in a fabric?
(c) Write short notes on 'Sponge' weave.
(d) Show on the graph paper the steps of producing crepe weave by reversing. 2+2+3+3=10
3. (a) What is the 'tex' equivalent of $2/40^s$ Ne cotton yarn?
(b) A warp is drawn 3/dent through a 72^s reed. What will be the e.p.i. in the loomstate fabric?
(c) Which types of shed are produced in a hobby loom and in an ordinary handloom, respectively?
(d) Write down four different types of tie-up used in handloom. Why tie-up is needed?
(e) Write down end-uses of Crepe weave, Huck-a-back weave and Mockleno weave. 1+1+2+3+3=10

Group- B

Question **No.1** is compulsory & answer **any three** from the rest.

1. Answer all the questions : 1×5=5
 - (a) Why azoic colours are known as "ice colours"?
 - (b) What are the differences between direct dye & acid dye?
 - (c) Explain the remedy of tendering of sulphur dyed cotton fabric?
 - (d) State the advantages of reactive dye.
 - (e) _____ group is always present in vat dye.
2. (a) A reducing agent is used when vat dye is converted into its soluble salt of leuco form - why? 2
(b) What is bronziness of sulphur dyed goods? How can that be minimised or rectified? 3
3. (a) What are the functions of common salt and sodium carbonate in reactive colour dyeing? 2
(b) How dyestuffs can be classified according to their application? 3

P.T.O.

4. Explain the dyeing of cotton textile with solubilised vat colour & mention the function of each ingredients used during dyeing process. 5
 5. Describe a method of dyeing of cotton fabric with azoic colour along with the recipe, dyeing condition & after treatment, if any. 5
 6. (a) Classify reactive dyes on the basis of their application method. 2
 - (b) How acid dye is classified in accordance with application point of view? 2
 - (c) Why do the acrylic fibres absorb basic dye? 1
 7. (a) What are vat and solubilised vat dyes? 1
 - (b) Distinguish between IK and IW process of vat dyeing. 2
 - (c) What are the differences between a dye & pigment? 2
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