

B.Des. Semester-V Examination 2014

Specialization in Textile & Clothing

Material & Processes-I

Paper : TC-V/03

Time : Three Hours

Full Marks : 40

Questions are of value as indicated in the margin.

Question No.1 is compulsory and answer **any three** from the rest taking two from **Group-A** and one from **Group-B**

1. Fill in the blanks with appropriate word(s) (**any ten**) : 10×1=10
- (a) Lumen is associated with _____ fibre.
 - (b) Wool is a _____, _____ fibre.
 - (c) _____ is the process where yarns are transferred in hank form.
 - (d) Maturity is associated with _____ fibre.
 - (e) _____ process is used to separate cotton fibres from its seed.
 - (f) Fibroin is associated with _____ fibre.
 - (g) _____ gin fibre is more clean.
 - (h) Sacks are produced from _____ yarn.
 - (i) Minimum tenacity of a textile fibre should be _____ for making yarn.
 - (j) _____ fibre float in water.
 - (k) The only natural fibre available in filament form is _____.

Group - A

2. (a) Classify natural fibres with example of each type.
(b) What is DFE ?
(c) Why wool is preferred for making winter garments? 4+2+4=10
3. (a) Why it is essential to clean fibres before yarn manufacturing and how it is done during spinning?
(b) Write down the physical and chemical properties of silk fibre. 4+6=10
4. Justify the following (**any five**) : 5×2=10
- (a) 100% Jute fibre is not used for making apparels.
 - (b) Silk is suitable for making apparels.
 - (c) Cotton fabrics are suitable for making summer clothes.
 - (d) Sisal is used for making ropes.
 - (e) Handloom weavers prefer yarn in bundle form.
 - (f) Woollen fabrics felt very well.

Group - B

5. (a) Why sizing is necessary?
(b) What are the different ingredients in sizing and what are their purposes? 4+6=10
6. Write short notes on following (**any two**) : 5×2=10
- (a) Pirn winding in charka (b) Peg warping (c) Defects in sizing (d) Leasing of warp yarns.
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