

Bachelor of Design (B.Des.) Examination, 2019
Semester - VI
Specialization in Textile & Clothing
Paper – TC-VI/03
(Material & Processes-II)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Question No. 1 is compulsory and attempt any three (3) from the rest

1. Fill up the blanks with appropriate word(s) (**any ten**) 10×1=10
 - a) Bicomponent fibre is necessarily a _____ fibre.
 - b) Melt spinning process is followed in _____ fibre.
 - c) Polymeric chain length is maximum for _____ fibre.
 - d) Binder yarn is used in fancy yarn for _____.
 - e) The most widely used texturing method is _____.
 - f) In sewing thread, the twist is _____ over _____ direction.
 - g) Nylon fibre can be blended with _____ fibre.
 - h) Ripening is associated with _____ fibre manufacture.
 - i) Warmth clothes are manufactured from _____ synthetic fibre.
 - j) Minimum strength required for textile fibre is usually _____.
 - k) Cross section of viscose fibre is _____.
 - l) Between straight and cross reel, handloom weavers prefer _____ reel yarn.
 2. What is the repeating unit of Nylon 6.6 fibre? Why it is called Nylon 6.6? Write down the physical properties of that fibre. 2+3+5=10
 3. What are the importances of different yarn packages in textile industry? Describe any two yarn packages used in textile industry. 4+6=10
 4. What is the importance of fancy yarns? Write on any two fancy yarns with principle of manufacturing and characteristics. 2+8=10
 5. Justify the following statements (**any two**): 2×5=10
 - a) Wet strength of Viscose is lower than its dry strength.
 - b) Modacrylic fibres are preferred than acrylic fibres.
 - c) Nylon fibre is preferred to design stretchable fabrics.
 6. Write short notes (**any two**) from the following: 2×5=10
 - a) Cross reeled yarn
 - b) Doubled yarn
 - c) Orientation & Crystallinity
 - d) Texturising
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