

MAY 2012

**P/ID 77573/PMBA1**

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Time : Three hours

Maximum : 100 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE out of Eight.

1. Write short notes on polymerization types.
2. Enumerate filament spinning.
3. What are the end uses of cotton?
4. Bring out the properties common to cellulosic fibres.
5. Write a note on Worsted yarns.
6. Write a note on HWM rayons.
7. Explain the uses of aramid fibres.
8. Enumerate the features of export quality hosiery yarns.

PART B — (5 × 10 = 50 marks)

Answer any FIVE out of Eight questions.

9. Explain the general properties of the textile fibers.
10. Explain Cotton as a textile fabric and its advantages over other fabrics.
11. Explain the chemical composition of Silk and its properties.
12. Explain the uses of semi synthetic fibres.
13. Explain the production process involved in synthetic fibers.
14. Explain the types of textured yarns.
15. Describe waxing and its significance.
16. Explain the types and reasons of blending.

PART C — (1 × 20 = 20 marks)

Compulsory

17. (a) If the 50% span length of a cotton fibre is 13.5mm and the uniformity ratio is 45%, then what is the 2.5% span length of this fibre?

Or

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- (b) Warp and weft yarns with diameters of 0.4 mm and 0.6 mm, respectively, are used to produce plain woven fabric with end spacing of 0.8 mm and pick spacing of 1.2 mm. Assuming the degree of flattening to be 0.8 in both warp and weft yarns, what is the approximate fabric cover?
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