

Roll No.

Total Pages : 3

7336/N

J-27/2110

TEXTILE STUDY-I

Paper-I

Semester-I

Time allowed : 3 Hours] [Maximum Marks : 74

Note : The candidates are required to attempt **two** questions each from Section A and Section B carrying **11** marks each and entire section C consisting of **10** short answer type questions of **3** marks each.

SECTION-A

1. (a) Define polymer and what are its different types? 5
- (b) Define polymerization. What is the difference between addition and condensation polymerization? 2,4

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2. Classify textile fibres on the basis of source and origin. Explain the manufacturing process and chemical properties of silk. 2,5,4
3. Write notes on the following :
 - (a) Innovations in fibres. 5
 - (b) Draw manufacturing flow chart for viscose Rayon and its physical properties. 6
4. Define yarn. How yarns are classified? Explain novelty yarns. 2,2,7

SECTION-B

5. Define dyes. What are its types and explain any one of them in detail. 2,9
6. Write notes on the following :
 - (a) Recent advance in dyes and dyeing technology. 6
 - (b) Dying defects and their remedies. 5
7. Define 'printing' what are the various techniques used for printing ? Describe Hand printing. 2,2,7

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8. Classify finishing processes. What is the purpose of applying finishes on fabrics? Briefly explain Moireing, Napping and calendering. 2, 3, 6

SECTION-C

9. Write short notes on the following : 3×10=30
- (i) Natural dyes
 - (ii) Yarn count
 - (iii) Microscopic structure of wool
 - (iv) Retting of Linen
 - (v) Manufacturing process of Nylon filament
 - (vi) Optical whiteners
 - (vii) Tentering
 - (viii) Importance of care labels
 - (ix) Hydro-phillic finish
 - (x) Difference between Ring Spinning and open end spinning.