

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

J 3430

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

Sixth Semester

Textile Technology

TT 1002 — SILK TECHNOLOGY

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the Physical and Chemical properties of silk.
2. Give the classification of Cocoons.
3. Enumerate the various methods of "Stifling/Drying".
4. List out the methods of "Silk Reeling".
5. Mention the steps to estimate the "Re-reeling Efficiency".
6. Enlist the various factors to be considered for "Selection of Proper Machinery" while planning for Silk industry.
7. What is "Dupion Silk"?
8. Enumerate the Raw Materials for Spun Silk Manufacturing.
9. What do you mean by "Organdine"?
10. State the Objectives of "De-gumming" and give the recipe for the same.

PART B — (5 × 16 = 80 marks)

11. (a) Give details about the overview of present status of silk industry. Also discuss the salient features and varieties of silk. (8 + 8)

Or

- (b) What is the composition of the Cocoon? Discuss in detail about "Silkworm Rearing" and "Harvesting". How Cocoon Testing and Grading can be done?

(4 + 6 + 6)

12. (a) Discuss the mechanism of cocoon drying. Also explain with neat sketch any one machinery used for the same.

Or

- (b) What are the various silk reeling devices? Also explain with neat sketch the latest method of silk reeling.

13. (a) Explain with necessary sketch the machine and apparatus used for silk Re-reeling process.

Or

- (b) Write detailed notes on "Location and space", "Quality and Quantity of filature water" and "Selection of proper machinery" for silk factory planning.

14. (a) Discuss in detail the various by-products and utilization of silk industry.

Or

- (b) Explain in detail the manufacturing of spun silk.

15. (a) Discuss in detail on "Silk Throwing" and its different processes involved in producing "Crepe Twist" and "Tram Twist".

Or

- (b) Write a detailed notes on

- (i) Weaving of different types of silk fabrics
(ii) De-gumming and dyeing of Silk yarn and fabrics.