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T 3481

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

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. Mention different varieties of silk in India.
2. What are the important silk properties?
3. State the objectives of cocoon drying.
4. What is "cocoon sorting"?
5. What do you mean by "Re - reeling efficiency"?
6. What is "skein lacing"?
7. What are the By - products during Raw silk manufacturing?
8. What do you mean by "Degumming"?
9. What do you mean by "Crepe Twist"?
10. Mention any four types of silk fabrics.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss in detail the overview of the silk industry in India.
(ii) Explain the practice of Silk Worm Rearing. (6 + 10)
- Or
- (b) (i) What are the various factors influencing cocoon quality.
(ii) How cocoons are classified and
(iii) Explain the cocoons testing and grading methods. (4 + 4 + 8)
12. (a) What are the various methods of stifling their advantages and disadvantages?
- Or
- (b) Discuss in detail the methods of cocoon cooking, degree of cooking and effect of cooking on reeling results.
13. (a) What are the objectives of Reeling and Re-reeling? With necessary sketches explain the working principle any one of them.
- Or
- (b) What do you mean by "Booking and packing process"? Discuss in detail the various factors to be consider for silk reeling factory planning.
14. (a) Explain in detail the process sequence and machinery details for manufacturing of spun silk yarn.
- Or
- (b) Write detail notes on :
- (i) Dupion silk Reeling. (8)
- (ii) Reeling of Non – Mulberry cocoons. (8)
15. (a) Explain in detail the preparatory process and silk weaving using
- (i) Power loom. (8)
- (ii) Hand loom (8)

Or

(b) Write detailed notes on :

- (i) Degumming and dyeing of silk yarn. (8)
 - (ii) Silk fabric production using shuttle less weaving. (4)
 - (iii) Silk winding and Silk Throwing process (4)
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