

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt Five questions in all, selecting one question from each Section A, B, C and D. Section E is compulsory.

SECTION A

1. (a) Which type of cottons are suitable for combing? (4)
- (b) Discuss the various methods for preparing stock for combing. (6)

OR

2. (a) In modern comber, discuss the various developments that have take place in comparison to conventional one. (4)
- (b) Explain the role of machine and process variables on combed yarn quality. (6)

SECTION B

3. What and how different objectives of builder motion are achieved in speed frame? Discuss with diagram. (10)

OR

4. What do you understand with RATCHING in roving frame? What is its impact on roving quality? (10)

SECTION C

5. (a) Explain spinning geometry. (5)
- (b) Discuss the modern developments on ring frame. (5)

OR

6. Briefly discuss the functions of following: (10)
- a) Spindle b) Balloon control ring c) Traveller d) Spacer.

SECTION D

7. Compare DREF 2 and DREF 3 spinning systems. Also discuss their merits and demerits. (10)

OR

8. Compare the yarn properties obtained from open end spinning and ring spinning system. Also write down their suitable applications. (10)

SECTION E

9. (i) Rotor spun yarn is more even than ring spun yarn. Justify. (2)
- (ii) Roving frame is necessary evil. Explain. (2)
- (iii) Write functions and construction of yarn. (2)
- (iv) How yarn is formed with the aid of false twist? (2)
- (v) Write the correct sequence of backward feed in comber. (2)
- (vi) What are the different factors which affect the noil percentage? (2)
- (vii) What is role of thread guide in ring spinning? (2)
- (viii) State the objectives of roving frame. (2)
- (ix) Air jet spinning is also open end spinning. Justify. (2)
- (x) Why combed cotton is better than carded cotton? (2)