16057

[Total No. of Questions - 9] [Total No. of Printer ages - 2] (2126)

16057(D)

- O DEL 2010

B. Tech 3rd Semester Examination Yarn Manufacture-I (NS)

TE-213

Time: 3 Hours

Max. Marks: 100

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

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

SECTION - A

- (a) What are different types of blending techniques? What are advantages & disadvantages of different blending techniques? (10)
 - (b) With the help of diagram explain working principle of modern blending machine. (10)
- What are differences between cotton and synthetic blow room line? Prepare a sequence of machine for the processing of medium grade cotton with suitable diagram. (20)

SECTION - B

- 3. Justify degree of cleaning is not better than degree of opening. How will you measure degree of opening? What are the factors on which degree of opening depends? (20)
- 4. Write short notes on:
 - (a) Double chute feed (b) Lapdefects site prevention. (20)

SECTION - C

- 5. What are principles of carding? State with relevant equation. Explain heel and toe arrangement with suitable diagram. (20)
- 6. Explain fibre transfer ratio in the card. Derive equation for fibre transfer ratio. What are the factors on which fibre transfer ratio depends? (20)

SECTION - D

- 7. State objective of draw frame. Explain the functions of important parts of the draw frame. (20)
- 8. Why autolevelling is important in the modern draw frame? Explain the working principle of open loop autoleveller with suitable diagram. (20)

SECTION - E

- 9. (i) State objectives of carding machine.
 - (ii) Explain roller slip.
 - (iii) State Ginning & its importance.
 - (iv) State the importance of metallic clothing.
 - (v) Explain roller eccentricity.
 - (vi) Explain break draft and its importance in draw frame.
 - (vii) Why tap roller weighing is done in draw frame?
 - (viii) State important feature of modern carding machine.
 - (ix) State objectives of blow room.
 - (x) What is the effect of doubling on sliver quality? Explain. (2×10=20)