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# July-22-00234

## B.Tech. EXAMINATION, 2022

Semester III (CBCS)

## YARN MANUFACTURE-I

TE-303

Time: 3 Hours

Maximum Marks: 60

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 Sections A, B, C and D. Q. No. 9 is compulsory.

## Section A

Explain the latest developments pertaining to ginning processes. Write a short note on pre and post ginning process.

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P.T.O.

2. What are the factors that affect blending performance during blowroom operation? Explain the modern automations incorported in blending machine systems for their enhanced performance.

#### Section B

- 3. Briefly explain the mechanism of modern openers and cleaners employed in blow room operation. How opening of fibres is affected by fibre length? 10
- 4. How is the feed rate controlled through piano feed regulating motion? Suppose the answer with a neat diagram.

  10

#### Section C

- 5. Explain the principles of roller and clearer card. What is the function of flats in carding machine? 10
- 6. Write a note on nep formation? In which region of carding machine maximum proportion of neps are generated?

  10

#### Section D

7. Write a note on roller slip and roller eccentricity. How drafting waves are formed between drafting rollers and what are the their consequences? 10

8. Which type of drafting system is generally preferred for drawframe system and why? Why bottom rollers are of knurled shaped in drafting system? What is the hardness range top and bottom rollers in draw frame?

## (Compulsory Question)

- 9. (a) Mention the objectives of ginning process.
  - (b) Explain the mechanism of lap former.
  - (c) What is the basic difference between stripping and carding process ?
  - (d) What are stationary flats? Explain their role in carding.
  - (e) Explain degree of opening and cleaning in blowroom. 5×4=20