

[illegible]

### SECTION-B

- Q2. Explain with neat sketch the working principle of saw gin machine and what precautions to be taken for reduction of contamination level at ginning stage.
- Q3. What is cleaning efficiency and how it can be calculated? What is the significance of cleaning efficiency and what are factors on which cleaning efficiency of blowroom line depend?
- Q4. A carding m/c produces 0.17 hank sliver from 13 oz/yd lap by generating 6% waste. What will be the mechanical draft?
- Q5. Calculate the production of the draw frame machine in kg/day from the following data:
- Diameter of the front roller is 30mm,
- RPM of front roller is 120 and efficiency of machine 90%,
- hank feed - 0.115, number of doubling-8,
- break draft -1.8, main draft - 4.5
- Q6. Explain the recent development in different section of the drawframe machine and how these developments help in improvement in yarn production/quality.

### SECTION-C

- Q7. Explain the recent developments in blow-room line and what are the significance of developments in blow room process.
- Q8. Draw the sketch of revolving flat card and explain the function of different organs. What is the impact of changing, speed and setting on the quality of sliver?
- Q9. What are the different factors influencing drafting wave irregularities. How drafting wave irregularities can be minimized?