

- 2 (a) Discuss various causes of silver irregularity briefly. 12
 (b) Describe features of modern draw frame briefly. 3
- OR**
- 2 (a) Describe in detail effect of lap preparation 8
 on performance of Comber.
 (b) Describe lap preparation process briefly. 7
- 3 Write short notes : (any **three**) 15
 (i) Factors to be considered for Processing of Manmade
 fibers at Draw frame.
 (ii) Developments in loading arrangement at Draw frame.
 (iii) Features of modern comber
 (iv) Comber gauges

SECTION - II

- 4 (a) Answer the following :
 (i) State the important objects of Comber. 3
 (ii) The noil % is around _____ in case of 1
 Super combed variety.
 (iii) What is a Counter feed Comber ? 1
 (iv) "Can fed Inter" is called short spinning 1
 system. (True or false)
 (v) In the speed frame, Package size _____ 1
 from slubber to jack.
 (vi) In the speed frame TPI will depend on 1
 Flyer speed and _____ .
 (vii) Find draft on speed frame, if Silver hank 2
 is 0.20 and roving hank is 1.6.
- (b) Describe the passage of material and Combing 10
 process briefly with a neat sketch.
- 5 (a) Explain modern drafting system on Speed frame. 7
 (b) Explain Conventional flyer and flyer assembly 8
 with neat sketch.
- OR**
- 5 (a) Derive an equation for roving content on Flyer Bobbin. 9
 (b) Draw only diagram of American builder mechanism. 6
- 6 Write short notes : (any **three**) 15
 (i) Objects of Speed frame
 (ii) Optimum Roving twist
 (iii) Differential motion
 (iv) Short process spinning system.