Total marks = 25

INSTRUCTION

- Answer all questions
- Hand writing should be legible
- Do not write on the back side of the front page of answer sheet
- Answers should be properly numbered
- Do not miss to write your entry number

Q1. Choose the correct choice / choices

- (i) Typical roving twist is
 - A. 60 turns/inch B. 60 turns /cm ... 60 turns /m D. None

Dilum = ron

To = n

- (ii) Number of spindles in commercial roving frame is
 - A. 60
- **₽**. 120
- C. 240
- 480
- (iii) Roving is slightly twisted to make it
 - A. round
- B. strong
- C. reduce hairiness D. increase package content

Date: 04.10.2018

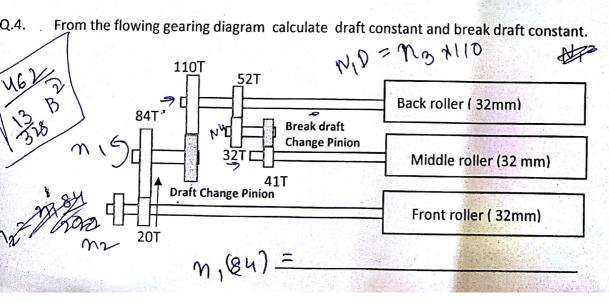
- The draft used in roving frame is usually (iv)
- B. 8

- Elements of drafting unit are (v)
 - A. cradle B. spacer
- C. presser
- Nose bar
- Q2. Jij Explain the limitations of high and low draft in roving frame.
 - For laying roving on bobbin surface, the bobbin rail traverses up & down. Why not spindles? (ii)
 - Spacers are given reciprocating motion. Why?
 - - Explain the purpose of differential drive

 $(2.5 \times 4 = 10)$

- A sliver is fed at the rate of 2.5 m/min to the drafting unit of a roving frame. The frame is producing a roving Q3. of 500 tex from a sliver of 5 Ktex. The spindle speed is 1000 rpm.
 - Ji Determine twist /m in the roving?
 - (rpm)?
 - (iji) Calculate bobbin rail speed assuming roving diameter to be 1.5mm.

 $(2 \times 3 = 6)$



N3×52= N4×32 N4= N10×52