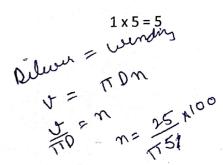
## Total marks = 25

## 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



(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

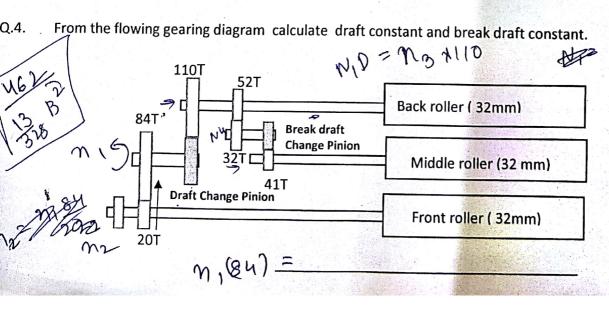
- Q2. Jij Explain the limitations of high and low draft in roving frame. (ii)
  - For laying roving on bobbin surface, the bobbin rail traverses up & down. Why not spindles?
  - Spacers are given reciprocating motion. Why?

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