

Printed Pages : 3



\*1604\*

340

NTT-401

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 160401**

Roll No.

--	--	--	--	--	--	--	--	--	--

**B. Tech.**

**(Sem. IV) Examination, 2014-15**

**Yarn Manufacture-II (NTT-401)**

*Time : 3 Hours]*

*[Total Marks : 100*

**Note:** Attempt *all* questions. All questions carry *equal* marks.

1. Attempt any *two* parts of the following.
  - a) Discuss the objects of carding and how they are achieved.
  - b) Discuss the role of feed plate, feed roller and mote knives and its constructional details.
  - c) Discuss the role of back plate, front plate, and cylinder under casing and their settings in carding

2. Attempt any **one** parts of the following

- a) Differentiate between the doffer and the cylinder.
- b) Discuss the technological design changes in carding

3. Attempt any **two** parts of the following.

- a) Discuss the object and working of flat stripping comb and doffer comb.
- b) Discuss the changes required in card setting for long and short staple fibre.
- c) The production of a card per hour is 12 lbs. There are 20 cards that are running to produce similar type of material. Waste taken out at each card is 5%. The hank of the lap feed to the card is 0.0012. Calculate at what speed of 9" lap roller of a scutcher should run with an efficiency of the machine being 90%.

4. Attempt any **two** parts of the following.

- a) Discuss the mechanism responsible for the constant hank of card sliver.
- b) Discuss the working principle of draw frame and passage of cotton through draw frame showing important parts.

- c) Discuss the merits and demerits of different drafting systems used in draw frame.

5. Attempt any **one** parts of the following.

- a) Define the importance of doubling in the draw frame.
- b) A draw frame has front roller running at 1400 rpm and has 2" dia. The tension draft between Front roller and coiler called roller is 1.02. Calculate production at 80% efficiency when hank delivered is 0.15
- c) Discuss the recent developments in draw frame.

—x—