

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain in detail how we control the mixing quality and mixing cost. in spinning mill.
- Q.4 Draw a diagram showing the passage of material on a carding machine. Briefly mention the function of each part.
- Q.5 Give a comparison between:
- a) Flexible vs. Metallic card clothing.
 - b) Carding vs. Stripping action.
- Q.6 What is an Auto leveller ? Discuss the working principle of different type of Auto leveller in a carding machine.
- Q.7 Explain the general setting and gauges for high speed card. Also mention the maintenance schedule of high speed card.

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Roll No.

3rd Sem. / Textile Technology

Subject : SPINNING TECHNOLOGY-1

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) What is object of carding?
 - b) Name different types of Ginning Machine.
 - c) Name the types of waste generated in carding.
 - d) What is the importance of blending?
 - e) What is yarn realization?
 - f) Mention the function of mote knife.
 - g) What is the range of carding speed in modern carding?
 - h) How much beating point is generally required to run 100% Polyester in Blow-room.
 - i) What is a CVT-3 cleaner?

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- j) What is the importance of tinting?
- k) Where carding action occur in card?
- l) What is purpose of preopening?
- m) What is the basic function of a doffer?
- n) What is the basic function of a licker-in?
- o) What is the three basic action of card machine?
- p) Why card is called the heart of spinning mill?
- q) What is the function of Auto leveller?
- r) What is flat waste percentage in carding machine in 100% cotton?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What is the principle of opening by Air-Stream?
 - ii) What is function of beater and grid bar? Explain the working of any one machine based on these system.
 - iii) What is the main development is Blow-room line?

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- iv) How we control the waste and cleaning in Blowroom line?
- v) What is object of monocylinder and draw a neat diagram.
- vi) What is advantages of Automatic lap doffing in Blowroom?
- vii) What is defects in laps and their remedies in Blow-room?
- viii) Explain the working of saw ginning?
- ix) What is half setting and full setting of a carding machine?
- x) How to check the performance of carding machine?
- xi) Explain the different yarn numbering system.
- xii) Mention different card web defects and their control.
- xiii) What is the object of carding machine?
- xiv) Calculate the production of card machine in shift of 8hr at 100% efficiency when the speed of doffer is 200 meter per minute and sliver hank is 0.130.
- xv) Convert 20 Tex to English count(Ne) and Denier.

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