



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

PAPER ID : 161603

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15
YARN MANUFACTURE - IV

Time : 2 Hours]

[Total Marks : 50

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

1 Attempt any two parts of the following :

- (a) Discuss the advantages and limitation of ring spinning.
- (b) Discuss the important setting parameters in ring frame drafting system.

2 Attempt any one parts of the following :

- (a) Explain the building mechanism of any modern ring frame.
- (b) Explain the role of ring and traveler and their development. Also explain the importance of running-in of ring.

- 3 Attempt any two parts of the following :
- (a) Discuss the systems of waste collection in ring spinning.
 - (b) Discuss the various types of yarn faults and their causes.
 - (c) Write a note on spindle design and role of wharves and bolster
- 4 Attempt any one parts of the following :
- (a) Discuss the object of ring doubling also discuss the working of ring doubler
 - (b) A ring spinning frame is running with following particulars:
No of Spindles : 864, Spindle Speed: 18000 rpm, Front roller speed: 20 m/ min. Bobbin diameter at base: 20 mm, full bobbin diameter: 40 mm, Yarn count: 25 tex, Calculate the yarn twist at the base and at full bobbin diameter and also calculate the production of ring frame in 8 hour at 94% efficiency.
- 5 Attempt any one parts of the following :
- (a) Discuss the objects of reeling. Also discuss the various types of reeling machines.
 - (b) A threefold fancy yarn is built up from one thread each of 2/48's worsted, 106 denier rayon and a woolen thread. What is the count of woolen skein thread if resultant count is 5's Ne cotton ?
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