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### Unit-II

		the state of the s	
3.	(a)	Critically analyse the factors those are respondent for twist-loss and twist-gain, with reference ring frame. Also, comment on the rescombined effect of these factors.	e to a
	(b)	Discuss the causes of end-breakages on frame and suggest the measures to controbreakages.	_
4.	(a)	How can you promote the translation of property into a blended yarn?	fibre 5
	(b)	Find an analytical expression to determine wittension in terms of different machine and proparameters of a ring frame.	_
		Unit-III	
5.	(a)	Explain the causes of formation of wrapper in open-end spinning.	fibres 10
	(b)	Explain the factors limiting the rpm of a rot	or.10
6.	(a)	Describe the mechanism of Friction spin system.	nning 10
	(b)	Explain the differences in structure of different spinning systems.	ferent

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#### BT-5/D-12

#### YARN MANUFACTURE-III

## Paper-TT-303

Time allowed: 3 hours] [Maximum marks: 100

Note: Attempt any five questions taking at least one questions from each unit.

#### Unit-I

- (a) How do perfect drafting and actual drafting differ from each other? Explain citing examples. 10
  - (b) What is stick-slip phenomenon associated with roller drafting system?

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  - (c) Define transfer efficiency of a card. How is transfer efficiency affected by different operational parameters of a card?
- (a) State the mechanism of hook formation at different stages from card to draw frame.
  - (b) Discuss the nature of forces experienced by a fibre at different stages of opening and cleaning. 10

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### Unit-IV

- 7. (a) What are the problems associated with the spinning triangle? Describe a spinning system that almost eliminates the formation of spinning triangle. 10
  - (b) What is fancy yarn? Describe a technique to manufacture fancy yarn. 10
- 8. (a) How is sewing thread manufactured? Discuss different types of sewing threads.
  - (b) Discuss the effect of direction of twist and twisting methods on the properties of a piled yarn.
     10