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- Instructions -
- (1) All Questions are Compulsory.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
- (8) Use of Steam tables, logarithmic, Mollier's Chart is permitted.

Marks

1. Attempt any <u>FIVE</u> of the following:

10

- a) State the necessity of waste cycle.
- b) State any four modern features or ring frame.
- c) Differentiate any four points between ring yarn and rotor yarn.
- d) State the function of navel.
- e) Define wrapper fibres.
- f) State the objects of Air-jet spinning.
- g) List the application (any four) of wrap spun yarn.

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2.		Attempt any THREE of the following:	12
	a)	With neat diagram explain integrated monitorring system.	
	b)	Explain in detail. Preparation of silver for rotor spinning.	
	c)	State the effect of process parameter influencing properties of Dref yarn	
	d)	List any eight application of twist spun yarn.	
3.		Attempt any THREE of the following:	12
	a)	State the effect of rotor dia on rotor yarn quality.	
	b)	Give the production formulas for rotor machine and range of twist, draft, speed and production.	
	c)	Describe with neat sketch. DREF-3.	
	d)	Give the application of DREF-2 yarn.	
4.		Attempt any THREE of the following:	12
	a)	State the modern features of pre-comb process.	
	b)	Describe with neat sketch working of rotor spinning machine.	
	c)	Describe with neat sketch working of air-jet spinning.	
	d)	Give the enduses (any eight) of air-vortex yarn.	
	e)	State the properties of Polyfill yarn.	
5.		Attempt any <u>TWO</u> of the following:	12
	a)	State the importance of automization in ring frame and also discuss the problems due to automization.	
	b)	List the limitations of ring frame.	
	c)	List the enduses of airjet yarn.	

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6. Attempt any <u>TWO</u> of the following:

12

- a) List the properties of airjet yarn by considering
 - i) Raw material
 - ii) Airjet speed
 - iii) Draft
 - iv) Production rate
- b) Explain the influence of process parameters on properties of air-vortex yarn.
- c) Describe with neat sketch self twist spinning.