17692

11920

3	Hours	/	100	Marks	Seat No.				

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question in 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.

Marks

1. Answer any FIVE of the following:

20

- a) Differentiate between product layout and process layout.
- b) Which are the various devices and tools used to improve plant layout.
- c) Explain steps involved in planing a layout.
- d) What are the objects of material handling? Which are the factors to be considered while selecting material handling equipment for weaving.
- Explain quality particulars EPI, PPI, Warp count, Weft count and cover factor.
- Explain importance of temperature and humidity control in weaving department especially in winter season.
- Suggest measures to reduce air, water and noise pollution in a textile unit.
- h) Give power requirement of spinning department.

17692 [2]

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2.		Answer any TWO of the following:	16
	a)	Explain various factors to be considered while selecting the site.	
	b)	Explain various principles involved in material handling. Explain with neat figure any three material handling equipment used in textile industry.	
	c)	Give labour compliment for three shifts for a spinning mill having 20,000 spindles.	
3.		Answer any TWO of the following:	16
	a)	Write processing parameters in table form for 20 ^s carded yarn having 25000 spindles.	
	b)	Calculate machinery required for producing 20s carded yarn on 10,000 spindle.	
	c)	Sketch a layout of 24 Ring frame m/c. with m/c details.	
4.		Answer any TWO of the following:	16
	a)	Calculate machinery required for producing 10,000 meters of voile fabric.	
	b)	Sketch layout for entire weaving department for producing 10,000 meter of voile fabric.(Only loom shed))
	c)	Give labour compliment for producing 10,000 meters of voile fabric / day in three shifts having Ruti-C 100ms.	
5.		Answer any TWO of the following:	16
	a)	With neat figure explain construction and working of three types of humidifier used in weaving mill.	
	b)	Suggest control measures to reduce Industrial accidents and Hazzards in textile mills.	
	c)	What is energy conservation? Explain measures taken for energy conservation in spinning mill.	

17692 [3]

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

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- a) Which one the factors to be considered while selecting weaving machinery in weaving department. Explain with example.
- b) Explain effect of various processing parameters for producing various carded and combed yarn.
- c) (i) What is importance of Energy audit? How energy audit is helpful to improve profitability of a textile mill.
 - (ii) Define relative humidity. How does humidity helps to improve productivity in weaving mill.