

17692

15162

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answer 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.

Marks

- 1. Attempt any FIVE of the following: 20**
- Enlist advantages of rural site selection for textile mill.
 - Illustrate symptoms of bad layout.
 - State objects of material handling and elaborate its importance.
 - Give the concept and importance of energy conservation.
 - Mention the work load of winder and warper.
 - Why and how, the humidity is maintained in a loomshed?
 - Give four health hazards in textile mill and measures to control them.
- 2. Attempt any TWO of the following: 16**
- Compare product and process layout with respect to textile unit.
 - Give the line sketches of material handling equipments used in blow room and loomshed.
 - Draw layout of 24 ring frames alongwith alleys.

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- 3. Attempt any TWO of the following: 16**
- a) Draw chart and show the selection of parameters such as speed, η , waste % etc for producing 40^s V cotton yarn from blow room to ring frame.
 - b) Calculate the machinery required for 25,000 spindles of ring frame producing 40^s, combed cotton yarn upto comber only.
 - c) Calculate machinery required for 40^s combed cotton 25,000 spindles from comber preparatory to blow room.
- 4. Attempt any TWO of the following: 16**
- a) Give speciality and quality particular of cambric, poplin, voile and suiting fabrics.
 - b) Mention any eight factors considered during selection of weaving machinery.
 - c) Draw chart of processing parameters for speed, η waste % etc and calculate machinery for producing 10,000 meters of denim cloth per day (up to sizing only)
- 5. Attempt any TWO of the following: 16**
- a) Draw layout of 48 automatic looms. Show passages used in it.
 - b) Describe the work load of ring frame tenter and doffers.
 - c) Enlist various quantity and categories of labours required per day for a loomshed having 48 looms.
- 6. Attempt any TWO of the following: 16**
- a) What is energy audit? Write values of power requirements of a spinning mill with 25,000 spindles spinning 40^s count.
 - b) Describe the importance and requirements of RH% and temperature in weaving and its preparatory departments.
 - c) Give causes of industrial accidents and control measures taken in spinning mills.
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