

17692

16172

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 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 TEN of the following: **20****
- a) State importance of material handling in weaving department.
 - b) State the types of material handling equipments.
 - c) State the disadvantages of site selection of a urban area.
 - d) Define product lay out.
 - e) List the names of wastes removed in spinning and weaving department.
 - f) Give the norms of wastes removed in speed frame and ring frame.
 - g) How blend material waste is controlled in spinning plant?

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- h) Give the norms of 100% cotton fabric.
- i) State the quality particulars of leno fabric.
- j) State the duties of ring frame tenter.
- k) Define relative humidity.
- l) Write the causes of sound pollution in textile mill.
- m) State the causes of industrial accidents.
- n) State the norms of twill fabric.

2. Answer any TWO of the following: 16

- a) Discuss the factors to be considered while selecting site for textile unit.
- b) Differentiate any eight points between process layout and product layout.
- c) Discuss factors to be considered while selecting material handling equipments in spinning unit.

3. Answer any TWO of the following: 16

- a) Write processing parameters in table form of a 40^s combed yarn.
- b) Calculate machinery required for 25000 spindle unit to produce 40^s combed yarn.
- c) Sketch layout of the required machinery for 20^s carded yarn on 25,000 spindles.

4. Answer any TWO of the following: 16

- a) Explain quality particulars EPI, PPI, warp and wett count and width.
- b) Calculate machinery required upto warping only for producing 22000 meters of popline fabric / day.
- c) Sketch layout for a warping machinery for producing 22000 meters of popline fabric/day.

- 5. Answer any TWO of the following: 16**
- a) Give labour compliments at ring frame for 20000 spindle.
 - b) Give labour requirements of loomshed having 250 automatic looms.
 - c) Give the energy conservation audit of a spinning department.
- 6. Answer any TWO of the following: 16**
- a) Which steps are required to save energy in weaving department?
 - b) Draw and describe humidification plant used in spinning mill.
 - c) Enumerate measures and laws to control the accidents in textile mill.
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