



SF-7875

B. E. IV (Sem. VIII) (TP) Examination
May / June - 2011
Production Mng. & Energy Conservation in
Wet Processing

Time : Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृशावेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 4 (Sem. 8)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Production Mng. & Energy Conservation in Wet Processing"/>	<input type="text"/>
Subject Code No. : <input type="text" value="7"/> <input type="text" value="8"/> <input type="text" value="7"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="NIL"/>	<input type="text"/>
	Student's Signature

- (2) Figure to the right indicate full marks.
- (3) There are no sections in this paper.
- (4) Make suitable assumptions wherever necessary.

1 (a) Answer in brief : 10

- (1) List some factors affecting Dye-House management.
- (2) Define production planning and control.
- (3) What is the central objective of plant layout.
- (4) Write any four basic elements of quality circles.
- (5) What is sound management ?
- (6) What is meant by RFT concept in dyeing ?
- (7) Enlist some tickets in five part docket system in production planning.
- (8) Give a common sequence of textile production planning in india.
- (9) List some objectives of inventory control.
- (10) How do you calculate planned minimum stock in a textile oprganisation.

- (b) What is plant layout ? Explain the objectives and suitability of the same. **10**
- 2** Attempt any two of the following : **15**
- (1) What is value analysis ? Explain the procedure in detail for the same.
- (2) Explain inventory control with its different techniques.
- (3) Explain dye house management with reference to different factors.
- 3** Write any three short notes : **15**
- (a) Quality loop
- (b) Productivity by process optimisation and shortening of sequences.
- (c) Production planning and control.
- (d) MIS with its role in textile industry.
- 4** (a) Write answer in short : **10**
- (1) How much is the percentage total water consumption in dyeing and printing.
- (2) Calorific value of coal is _____ and CNG is _____.
- (3) Give the steam costing formulae of solid and liquid fuels.
- (4) Explain BOD and COD concepts.
- (5) Enlist possibilities of water recycling in a textile mill.
- (6) Cite some examples of controlled/minimum application of liquor.
- (7) What is break down maintenance ?
- (8) Which operation in processing consumes maximum thermal energy.
- (9) How much is the steam pressure and consumption in stenter.
- (10) Calculate the contribution in electric bill for 20 lamps (60 watts each/shrs/30 days) and 2 iron (500 watts each) in a textile mill laboratory. (power cost @ ₹. 3.50/unit)

- (b) Give water consumption pattern in textile mills. **10**
Also explain various impurities in water and their impact on environment.
- 5** Discuss technical and economical aspects of textile waste-water reuse. **15**

OR

Describe fuel consumption and conservation through various routes in a dye-house.

- 6** Write short notes : (any three) **15**
- (a) Tertiary treatments of effluents.
 - (b) Energy conservation in polyester processing.
 - (c) Pollution load in pretreatment processes.
 - (d) Protective measures for uv radiation.