



RM-7875

B. E. IV (Sem. VIII) (T.P.) Examination

May / June – 2010

Production Management & Energy Conservation

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. 4 (Sem. 8) (T.P.)

Name of the Subject :
Production Management & Energy Conservation

Subject Code No. : 7 8 7 5 Section No. (1, 2,.....) : 1&2

Seat No. :

Student's Signature

- (2) Answers to the **two** sections must be written in **separate** answer books.
- (3) Figures to the **right** indicates full marks.
- (4) Tie **two** sections separately.

SECTION I

Q.1 a) Answer the following **objective** questions. (10)

- Image match module is used by manufacturer. True or false, justify.
- What is Dispatching?
- Write any two inventory control technique.
- 60 to 79 rating suggest satisfactory condition of the machine. True or False. Justify.
- Give any two examples of machine controllers.
- Cost value is also known as _____.
- Give full form of DSS.
- Objective of data warehousing is to assist in warehousing of the final finished goods. True or False. Justify if false.
- Define: Direct cost.
- Write the central objective of plant layout.

- b) Selection of general region for the textile plant. (10)
- Q.2 a) Enlist different modules of ERP. Explain any 5 modules. (10)
- b) Explain factors influencing the failure of ERP software. (05)

OR

- Q.2 Write a short note on avenue of increased productivity with suitable examples. (15)
- Q.3 Write short notes on **any three** of the following (15)
- a) Production Planning & Control
 - b) Module K2dye
 - c) Quality loop
 - d) Machine auditing

SECTION II

- Q.4 a) Answer the following objective questions. (10)
- i) Name some alternative sources of energy.
 - ii) Give formula for steam costing of furnace oil.
 - iii) Cationic exchange is classified in to _____ and _____.
 - iv) Wet processing uses _____ liters of water for every kilogram of finished textile.
 - v) Name two mechanical type of steam traps?
 - vi) ___ % reduction can be obtained in fuel requirement for every 5°C rise in the boiler feed water temperature.
 - vii) Give the names of any two types of heat exchangers?
 - viii) Power usage of processing department is 67% to the total power usage of the textile mill. True or false, justify if false.
 - ix) Noise may be defined as _____.
 - x) How much is the steam pressure and power consumption in the Beam dyeing machine?

b) Describe different techniques to reduce water and energy consumption in polyester dyeing. (10)

Q.5 Explain the following :

a) value analysis procedure (10)

b) Selection of project and composition of team for Value analysis (05)

OR

Q.5 Discuss fuel consumption and conservation with respect to steam generation, distribution and utilization. (15)

Q.6 Write short notes on **any three** of the following (15)

a) Possible accidents in textile mills

b) Tertiary treatment for effluents

c) Control of the purchased product

d) Objectives and functioning of quality circles
