Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII • EXAMINATION – SUMMER 2014

Subject Code: 182803   **Date: 03-06-2014**

Subject Name: Dye House Management

Time: 10:30 am TO 01:00 pm   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1 **(a)** Answer the following OBJECTIVE questions: **05**
- **i.** Define 'Sound management'.
- **ii.** Why is long term planning often becomes difficult in a dye house?
- **iii.** _____% of the accidents is result of unsafe conditions and about _____% is due to unsafe actions.
- **iv.** The stock per year should at least be taken _____ times.
- **v.** Why emulsion form of auxiliaries is always purchased in small quantities?

(b) Answer in brief: **04**
- **i.** How do you calculate reorder level in a dye house? Explain with example.
- **ii.** What are the various reasons of detonation in a dye house? How is it to be avoided?

(c) Calculate the following numerical: **05**
A partially flooded Jet dyeing machine for polyester fabric with a pump motor of 10 H.P. is used for two shifts for obtaining 60,000 meters of fabric production per day. Three beam dyeing machines with pump capacity of 5 H.P. is used for single shift for 25,000 meters of Nylon cloth production per day. Calculate the monthly electric bill of the dye hose for these two machines. (Power cost is Rs. 3.00/unit)

Q.2 **(a)** Elaborate different factors for site selection for a dye house.   **07**
(b) Explain HML and FSN techniques for controlling inventories in a dye house.   **07**
OR
(b) Describe quality loop and value analysis of a product with suitable circle diagrams.   **07**

Q.3 Enumerate and describe different routes to obtain increased productivity in a dye house.   **14**
OR
Q.3 Elaborately describe various ways for fuel consumption and conservation in a dye house.   **14**

Q.4 **(a)** Explain different components of enterprise management system.   **07**
(b) Give various benefits of ERP.   **07**
OR
Q.4 **(a)** Explain the concept of MIS in today's world.   **07**
(b) Give different definitions of MIS. State its advantages.   **07**

Q.5 Write notes on:
(a) Common sources of accidents in Textile mills.   **07**
(b) Role of IT in Textile processing.   **07**
OR

Q.5 Write notes on:
    (a) Poison risks of various chemicals. **07**
    (b) Elements of production and planning control. **07**

                   ****