



B.TECH DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

TEXTILE TECHNOLOGY

TTX204: Work Study in Textile Industry

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Calculate the productivity of a garment factory which produces a piece in an average of 10 min. and produces 800 pieces in a shift of 8 hours.
 - a) 10.17
 - b) 16.67
 - c) 64
 - d) 100
2. Excess time more than standard rate of working to complete a job.
 - a) Allowance
 - b) Basic work content
 - c) Added work content
 - d) Normal time
3. Work study comprises of
 - a) Method study + Time study
 - b) Work measurement + Time study
 - c) Method study + Work measurement
 - d) Method study + Motion study
4. _____ makes a worker comfortable to make him work with high efficiency.
 - a) Work measurement
 - b) Motion study
 - c) Method study
 - d) Ergonomics
5. The chart which shows the economic movement of the limbs in improving productivity.
 - a) Flow process chart
 - b) Multiple activity chart
 - c) Two handed chart
 - d) Cycle graph
6. _____ type of layout is preferred for the apparel industry.
 - a) Process layout
 - b) Product layout
 - c) Fixed position layout
 - d) Combination layout

22. a) Describe the basic procedure of conducting a work study in an industry and list the factors to be considered in conducting it.

(OR)

- b) Explain the factors to be considered in providing a good working condition and environment to the workers in view of increasing the productivity. Give suitable example from textile background.

23. a) Find the suitability of rules framed by Gilbreth in concern with the various factors of motion economy.

(OR)

- b) (i) Discuss about therbligs and its importance in micro-motion study. (7)
(ii) Explain the importance of SIMO chart and its construction. (7)

24. a) Analyze the work measurement techniques, standard data system and direct time study system for their advantages and suggest a suitable system for apparel industry with justification.

(OR)

- b) Identify the suitable operation breakdown to calculate the standard minute value of a specific garment style with production machinery details.

25. a) Assuming the relevant data explain the application procedure of work study in optimizing the workload for automatic and shuttleless loom weavers.

(OR)

- b) Compare batch production and line production systems of garment industries and discuss their suitability with respect to quantity of production along with their merits and demerits.
