Roll No.

Total No. of Pages : 02

Total No. of Questions : 08

M.Sc. (Garment Manufacturing Technology) (Sem.–2) WORK STUDY FOR APPAREL MANUFACTURING Subject Code : MSGMT-202-18 M.Code : 76009 Date of Examination : 19-12-22

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. A total of five questions have to be attempted in all.
- 2. Attempt any one question from each unit. Fifth question can be attempted from any unit.
- 3. Each question carries TWELVE marks.

UNIT-I

- 1. a) Define Productivity. What are the types of productivity? Explain the various factors affecting productivity.
 - b) Describe the determinants of total time of a job giving an appropriate example. Review any two management techniques to reduce the work content due to product.
- a) Calculate various productivity factors and total productivity with the following data:
 (i) Output = 1,00,000 (ii) Labour = 20,600 (iii) Material = 30,000 (iv) Capital = 20,000 (v) Energy = 5000, Other expenses = 2000. (units are same for inputs and output)
 - b) Define work study and specify the objectives of work study.

UNIT-II

- 3. a) Discuss the areas of application of work study in an office area.
 - b) Describe with suitable example operation process chart.
- 4. a) What is method study? What are the objectives of method study and Explain the scope of method study?
 - b) Discuss the prerequisites for implementing work study at workplace.

UNIT-III

- 5. a) Define method study. Explain the steps involved in method study.
 - b) How does work study affect management, supervisor and worker?
- 6. a) Write a short note on: Micro motion analysis.
 - b) Explain the steps involved in conducting Stop watch study in a manufacturing unit.

UNIT-IV

- 7. a) A group of 10 workers working for 8 hours per day produced 320 pieces of component. It was observed that 15 % of the total available time workers were idle and for the remaining time they worked at an average performance of 80%. Calculate standard time for the job assuming operations to be completed manually and workers are entitled for 12 % relaxation allowances.
 - b) *"Various allowances are considered in building up the standard time of a job"*. What are these allowances? Why are they given? How are assessed?
- 8. a) Describe the SIMO chart with an example.
 - b) Explain the following terms with reference to work sampling:
 - i) Need of confidence level
 - ii) Determination of sample size.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.