

Exam.Code:0944
Sub. Code: 33914

2055
B.E. (Mechanical Engineering)
Eighth Semester
MEC-804(g): Work Study

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.

x-x-x

1	(a) Define work study. (b) What are the various information to be provided in a chart? (c) State the concept of Critical examination. (d) Define therbligs. (e) What are the objectives of micro-motion study?	(5x2)
	Section - A	
2	(a) State the process chart symbols and explain each by suitable example .What was the need to have these symbols? Explain. How and why to use symbols? (b) Work simplification can increase the productivity. How?	(7) (3)
3	(a) Explain travel chart with the help of diagram. (b) Prepare the operation process chart for the following activities (i) Assemble of a dot pen. (ii) Depositing a book in your library.	(5) (5)
4	(a) Explain the different principles and applications of motion economy. (b) Explain the importance of follow up and feedback for searching the alternative solution in work study.	(5) (5)
	Section - B	
5	(a) Name the various equipments used in time study. Discuss various time measuring devices. (b) Explain various rating methods.	(5) (5)
6.	(a) Explain some industrial application of work sampling. (b) What is MTM system? State the basic principles involved in MTM. State some of its industrial application	(4) (6)
7	(a) Explain incentives and their types. State the importance of direct financial incentive plans and indirect financial incentive plans. Why are they more effective? Explain. (b) Define wages and how they differ from wage-incentives.	(5) (5)

x-x-x