BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE) B.Tech.Sem - VII MECHANICAL: WINTER- 2022 SUBJECT: INDUSTRIAL ENGINEERING & MANAGEMENT

Time: 02:30 PM-05:30 PM

Day: Thursday Max. Marks: 60 W-13462-2022 Date: 15-12-2022 N.B.: All questions are **COMPULSORY**. 1) Figures to the right indicate FULL marks. 2) Use of non-programmable **CALCULATOR** is allowed. 3) Draw neat and labeled diagram WHEREVER necessary. 4) Assume suitable data if necessary. 5) [10] What are the different approaches of management? **Q.1** OR Is management an art or science? Defend your answer. [10] **Q.1** Differentiate between partnership and individual proprietorship. **Q.2** [10] OR **Q.2** Describe the organizational structure in industry. [10] Q.3 What are the similarities and differences between selling and marketing? [10] **OR** Q.3 What is break-even analysis? How does it affect profitability in business? [10] **Q.4** Describe the various process chart symbols used in method study. [10] **OR Q.4** Describe two handed process chart with suitable examples. [10] What do you understand by PMTS and MTM? Q.5 [10] OR The observed times and performance rating for 5 elements of a job are given in [10] Q.5 table. Calculate the standard time, assuming rest and personal allowances as 15% and contingency allowance of 2% of basic time. Element No. 2 4 5 $0.\overline{5}$ $0.1\overline{2}$ Observed time (minutes) 0.2 0.08 0.1 Performance rating (%) 85 90 80 Q.6 Describe the importance of industrial safety. [10] **OR Q.6** How is physical work measured? State the different techniques used for it. [10]