Paper / Subject Code: 53302 / Industrial Engineering & Management

Total Marks: 80

1T01418 - B.E.(MECHANICAL)(Sem VIII) (CBSGS) / 53302 - Industrial Engineering & Management

(Three Hours)

 N. B.: 1. Q. No. 1 is compulsory. 2. Attempt any THREE questions from the remaining questions. 3. Assume suitable data wherever necessary. 4. Figures to the right indicate full marks. 	
Q.1 Write Short note on. (Any Four) a. Productivity Improvement Techniques b. Role of Industrial Engineer c. Plant Layouts and Planning d. Importance of Ergonomics in the work-process layout e. Merit Rating f. Time Value of Money	(20)
Q.2 a) Define productivity. Why productivity is important in production management.	(10)
b) Explain the Micro and Macro Motion Study techniques in detail.	(10)
Q.3 a) Explain THERBLIGs in detail with the symbols used and the inference drawn.	(10)
b) Draw and Explain Outline Process Chart, construction, usage, inference for the replacent plug.	nent of spark (10)
Q.4 a) Explain in detail the Group Technology and OPTIZ system for the part coding.	(10)
b) Explain with the help of Dummy data Profit and Loss Account statement and the Batheir usage and inference.	alance sheet, (10)
Q.5 a) Explain in brief the various accounting methods deployed in asset depreciation and	
b) List various work measurement techniques available and explain any one in detail.	(10) (10)
Q.6 a) Explain in detail the concept of Value Engineering and Value Analysis with implementation of the same.	the steps in (10)
b) The workmen in an engineering firm are expected to work for 400 minutes in a shift of remaining time is meant for rest and personal needs, etc. i) Estimate the standard time per piece of a job whose normal time is 2 minutes. ii) Find number of pieces to be produced per day. iii) If the workmen engaged on the above job produced 180 pieces in the shift, efficiency?	(10)

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