

MECH/VIII/CBQS/IE&M | 18-05-2017

Q. P. Code: 13898

Industrial Engg & Mgtm.

(Three Hours)

Total Marks: 80

Instructions:

- Q. 1 is compulsory.
- Attempt any **THREE** questions from the remaining questions
- Assume suitable data wherever necessary
- Figures to the right indicate full marks.



- Q.1 Answer in short. (Any Four).
- a. What are the characteristics of a good wage system? 20
- b. What are the factors influencing plant layout?
- c. What are the different methods of depreciation?
- d. What are the different time study equipments?
- e. How is a system approach useful in I.E.?
- Q.2 a. Define Productivity. What are the different techniques to improve productivity? 10
- b. What is a FAST diagram? Construct a FAST diagram for a ball point pen. 10
- Q.3 a. What are the principles of motion economy? 10
- b. What are the different methods of merit rating? 10
- Q.4 a. What is anthropometry? How is anthropometry data used in design? 10
- b. The workmen in an engineering firm are expected to work for 400 minutes in a shift of 8 hours. The remaining time is meant for rest and personal needs, etc. 10
- 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, what is their efficiency?
- Q.5 a. What are the different types of plant layout? What are their advantages and disadvantages? 10
- b. Why does money have a time value? Explain the basic time value of money model with four variables involved in it. 10
- Q.6 Write short notes on. (Any Two) 10
- a. Financial Statements
- b. Assembly line balancing
- c. BPR
- d. PMTS.

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