

IEQC Sample question

6th sem

Mechanical

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Long type [8 mark]

① Describe the different types of allowance used in time study

② Using Graphical method to solve this problem

$$\text{Maximize } - Z = x + 5y$$

$$\text{Subject to } 5x + 6y \leq 30$$

$$3x + 2y \leq 12$$

$$x, y \geq 0$$

③ Explain various procedure of plant layout

④ Maximize $Z = 12x + 24y$

$$\text{Subject to } x + 4y \leq 20$$

$$3x + 5y \leq 15$$

$$x + y \leq 6$$

$$x, y \geq 0$$

⑤ Explain different types of overheads

⑥ Write short notes on ISO 9000

⑦ Describe the features of governing plant location.

- ⑧ What is inventory control, Explain ABC analysis.
- ⑨ Explain Briefly about EOQ
- ⑩ Describe the duties, function & responsibilities of Plant maintenance department.

Question containing [5 mark]

- ① Explain the necessity of work study & motion study
- ② Write steps for formulating Linear programming problem
- ③ Explain the performance rating
- ④ Comparison between PERT & CPM
- ⑤ What is the Predictive Maintenance
- ⑥ What is production planning & control
- ⑦ Describe elements of cost
- ⑧ Difference between motion study & time study
- ⑨ Explain about TQM

Question containing [2 mark]

- ① Define work study
- ② Define time study
- ③ Define operation research
- ④ What do you mean by plant location
- ⑤ Define inventory
- ⑥ Define plant
- ⑦ Define PERT