

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

Day : Friday  
Date : 3/6/2022

**S-13462-2022**

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

N.B.:

- 1) All questions are COMPULSORY.
- 2) Figures to the right indicates FULL marks.
- 3) Use of non- programmable calculator is allowed.

**Q.1** Define Management. Explain the Principles of management published by Henry Fayol. (10)

**OR**

**Q.1** Define Management. Explain the functions to be carry out by management to optimize the profit and cost. (10)

**Q.2** Define Organization. Distinguish between Individual Ownership and Partnership. (10)

**OR**

**Q.2** Define Organization. Explain organization structure of Line and Staff organization, give its advantages & limitations with suitable example. (10)

**Q.3** Define Marketing Management. Explain in detail the sales and promotional schemes to market the electric cars with respect to technical specifications and cost. (10)

**OR**

**Q.3** What is Merit Rating? Explain the different methods of Merit Rating with suitable example. (10)

**Q.4** Define Industrial Engineering. Explain the importance of cyclograph, chronograph, template, models and string diagram in method study with suitable example. (10)

**OR**

**Q.4** Define Method Study. Explain in detail SIMO Chart and MOST Techniques. (10)

**Q.5** Define Work Measurement. Explain different Work Measurement techniques with its applications, advantages and limitations. (10)

**OR**

**Q.5** Calculate standard time for given elemental time. The elemental time was noted with cumulative stop watch method. (10)

Sr. No	Elemental Time (Seconds)	Performance Rating (%)	Allowance (%)	Frequency
1	08	80	05	1
2	17	85	10	1/5
3	27	90	05	1
4	38	110	10	1/13
5	59	95	07	1

**Q.6** Define Ergonomics. Explain different tools used to optimize Ergonomically design. (10)

**OR**

**Q.6** Explain in detail amendments made in Factory Act 1948 and its relevance. (10)

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