

B.TECH. SEM -VII MECHANICAL 2014 COURSE (CBCS) :
WINTER - 2017
SUBJECT: ELECTIVE-II INDUSTRIAL ENGINEERING AND MANAGEMENT

Day: **Monday**
 Date: **22/01/2018**

Time: **02.30 PM TO 05.30 PM**
 Max Marks: **60**

W-2017-2314

N.B.:

- 1) All questions are **COMUPLSORY**.
- 2) Figures to the indicate **FULL** marks.
- 3) Assume suitable data, if necessary.

Q.1 Define Management. State the contributions of Gilbreth, F.W.Taylor and Gantt in the evolution of management. **(10)**

OR

Q.1 Define Management. Explain the Principles of Management. Is it an Art or Science? Discuss in brief. **(10)**

Q.2 What are the types of Businesses? Discuss the benefits and limitations of each form of business. **(10)**

OR

Q.2 Differentiate the need, expectations and achievements of Private and Public Sector in Indian economy. **(10)**

Q.3 What is job evaluation? Explain the methods of wage administration. **(10)**

OR

Q.3 What do you mean by Fixed Capital and Working Capital? What are the sources to get them? **(10)**

Q.4 Define Work Study. What are the steps involved in Work Study? What are the limitations of Method Study? **(10)**

OR

Q.4 Discuss the application with suitable example Multiple Activity Chart and String Diagram in Work Study. Draw the formats for these. **(10)**

Q.5 Elemental data for an operation is as follows. **(10)**

Element Number	Observed Time (Seconds)	Performance Rating (%)	Frequency
1	50	85	1
2	53	93	1
3	34	100	1/12
4	43	91	1/7
5	45	85	1/10

Calculate the standard time for the operation considering the relaxation allowance of 10% and Contingency Allowance of 5%

OR

Q.5 What is the purpose of Work Sampling? Where is it used? What are the steps involved in carrying out this method? **(10)**

Q.6 What is meant by Ergonomics? Which are the factors which affect the efficiency of human beings? How can this be improved? Discuss with suitable examples. **(10)**

OR

Q.6 Discuss the importance of Safety. What are the provisions relating to safety in industrial laws in India? **(10)**

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