

B.TECH SEM - III (2007 COURSE) (PRODUCTION ENGG.) :

SUMMER - 2018

SUBJECT: INDUSTRIAL ENGINEERING & MANAGEMENT

Day: **Tuesday**
Date: **22/05/2018**

S-2018-2589

Time: **02.30 PM TO 05.30 PM**
Max. Marks: 80

N.B.:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Out of the remaining attempt any **TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION-I

- Q.1**
- a) Define Management. Explain the levels of management. **(05)**
 - b) Explain Military/ Line type organization with its advantages, disadvantages and applications. **(05)**
 - c) What is break even analysis; explain in detail its application in optimizing the profit. **(04)**
- Q.2**
- a) Explain the functions of Management. **(06)**
 - b) Explain why Management is called Art, Science and Profession. **(07)**
- Q.3**
- a) Define Organization. Differentiate between Private Joint Stock Company, Partnership and Public Sector. **(07)**
 - b) Explain the principles to be followed while forming the Organization. **(06)**
- Q.4**
- a) Define Merit Rating. Explain any three methods of Merit Rating. **(07)**
 - b) Explain detail procedure of recruitment followed by Human Resource department while recruiting engineering students in their organization. **(06)**

SECTION-II

- Q.5**
- a) Define Industrial Engineering. Explain any two tools of Industrial Engineering. **(05)**
 - b) Explain any two methods of performance rating used in Time Study. **(06)**
 - c) Explain the role of KANBAN in optimizing the product. **(06)**
- Q.6**
- a) Define Work Study. Explain the detailed procedure of Work Study. **(07)**
 - b) Explain Two Handed Flow Process Chart and Multiple Activity Chart with example. **(06)**
- Q.7**
- a) The elemental time for a job in given as follow. Calculate the standard time for the job. **(09)**

Sr. No.	Element Time (sec)	Allowance	Performance Rating	Frequency
1	45	5%	70%	1
2	53	7%	90%	1
3	24	10%	85%	1/15
4	50	15%	100%	1
5	35	8%	110%	1/5

- b) Explain any two method of performance rating. **(04)**
- Q.8**
- a) Explain the highlights of The Factories Act 1947. Explain how this act can help in increasing the production. **(07)**
 - b) Explain the design of ergonomically system for any automobile industry with example. **(06)**

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