

CODE NO: NR422004 SET NO.2

**2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**IV B.TECH. II SEMESTER SUPPLEMENTARY EXAMINATIONS  
WORK STUDY & INDUSTRIAL ENGINEERING PRACTICES  
(PRODUCTION ENGINEERING)**

JULY -2005

TIME: 3 HOURS MAX MARKS:80

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*Answer any FIVE Questions  
All Questions carry equal marks*

1. (a) Distinguish between increased Production and increased Productivity?  
(b) What are the various tools of productivity? How Productivity can be increased?
2. (a) What is a string diagram ? what are its uses ?  
(b) What is written standard practice ? What are the improvements to record the method or operation available now?
3. (a) List and explain the steps necessary in developing a time standard.  
(b) Why do conditions have to be standard before making a time study?
4. What is system ? Explain man-machine system
5. (a) To become a successful Industrial Engineer, what qualifications and experience are needed? Discuss.  
(b) Explain Industrial engineering and computer how they compliment each other.
6. (a) How the job evaluation helps in developing equitable wage structure  
(b) What precautions should be followed in installing job evaluation scheme.
7. What are the training methods do you recommend for each of the following occupation? Why?  
(a) An-assembly line worker  
(b) An experienced supervisor
8. (a) Why should employee and employer both be concerned about safety in industry?  
(b) Discuss the need for personnel protective equipment?