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B.E/B.Tech DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011

Industrial Engineering

Fourth Semester

IE 282-WORK DESIGN

(REGULATIONS 2004)

Time: 3 hr

Max. Mark: 100

Answer ALL Questions

Part A (10 x 2 = 20 Marks)

1. What do you understand by the terms total productivity and Partial productivity?
2. What are the basic objectives of productivity measurement?
3. Define method study.
4. Draw process chart symbol for the following: i) Transport ii) Permanent storage
5. What are the three criteria generally used for work measurement?
6. How do you calculate basic time?
7. What is meant by the term fringe benefits?
8. Define work sampling.
9. What is the difference between single copy and multiple copy form?
10. Do you agree with the following? Justify your answer. "Organisation and Methods (O & M) met with only limited success".

Part B (5 x 16 = 80 Marks)

11. i) Enumerate the factors contributing to productivity improvement. 8
ii) Briefly explain about the factors affecting working conditions and its influence on work study. 8
12. a.i) Discuss about the objectives of method study. 8
ii) Explain with an example the use of outline process-chart for preliminary study. 8

Or

- b.i) Briefly discuss about the factors to be kept in mind by the study team while investigating a particular job. 8
- ii) Describe about the principles of motion economy. 8
13. a.i) Explain the advantages and disadvantages of Time study 8
- ii) Enumerate the factors both outside and within his control affecting the performance of a worker. 8
- Or
- b.i) What is "simo chart" ? Explain with an example. 8
- ii) Briefly explain various allowances used in arriving standard time. 8
14. a.i) Discuss about the three phases of work sampling. 8
- ii) What are the two sets of criteria used for classification of human motions in pre determined time systems(PTS)?Explain.. 8
- Or
- b.i) Discuss in detail the requisites of a sound wage incentive system. 8
- ii) Explain the pros and cons of work sampling to establish standards of performance. 8
15. a.i) Briefly discuss about the points should be kept in mind while designing form. 8
- ii) Enumerate two distinct phases of varifactor synthesis in indirect work measurement 8
- Or
- b.i) Explain the need for and steps involved in Organisation and Methods (O &M) 16.