

FACULTY OF ENGINEERING

B.E. IV/IV Year (EE / Inst) II Semester (Main) Examination, May/June, 2011

INDUSTRIAL ADMINISTRATION & FINANCIAL MANAGEMENT

Time : 3 Hours]

[Max. Marks : 75

*Answer all questions from Part A.**Answer any five questions from Part B.***Part A – (Marks $10 \times 2\frac{1}{2} = 25$)**

1. List out the factors considered in plant location.
2. Write short notes on 'Forecasting.'
3. Write short notes on 'Committees' in an organization structure.
4. Write short notes on 'Performance rating factor' used in time study.
5. List out the objectives of job evaluation.
6. Write short notes on 'Project management'.
7. List out the merits and applications of 'Travel chart' used in method study.
8. What are the three times used in PERT to estimate the time for an activity ?
9. List out the objectives of materials management.
10. What is depreciation ? List out the causes for depreciation.

Part B – (50 marks)

11. (a) Draw and describe process layout. 5
- (b) List out the functions of management and describe any one of them. 5
12. (a) Describe partnership type of business organization. 5
- (b) Draw and describe line type organization structure. 5
13. Using material type flow process chart describe production of a casting. 10
14. (a) Write short notes on the following: 6
- SQC, Quality Circles.
- (b) Describe C – chart used in quality control. 4
15. Four projects are to be assigned to four students. Time taken to complete the projects by various students are given in matrix. Assign the projects to students such that total time for completion of the projects is minimum. 10

Projects	P1	P2	P3	P4
Students				
S1	120	100	80	90
S2	80	90	110	70
S3	110	140	120	100
S4	90	90	80	90

16. (a) List out the merits, demerits and applications of LPP. 3
- (b) Solve the following by LPP graphical method. 7

$$\text{Maximize } Z = 4x_1 + 3x_2$$

$$\text{Subject to } 2x_1 + x_2 \leq 72$$

$$x_1 + 2x_2 \leq 48$$

$$x_1, x_2 \geq 0$$

17. (a) Describe break-even analysis. 4
- (b) Describe any two methods of capital budgeting. 6