

FACULTY OF ENGINEERING**B.E. 4/4 (ECE) I – Semester (Main) Examination, December 2016****Subject : Industrial Administration and Financial Management****Time : 3 hours****Max. Marks : 75****Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.****PART – A (10 x 2.5 = 25 Marks)**

- 1 State the functions of the management.
- 2 Define the term Plant layout.
- 3 Highlight the advantages of work study.
- 4 Compare job evaluation and merit rating.
- 5 Differentiate variable and attribute.
- 6 What are the principles of S.Q.C.?
- 7 State the importance of float in project management.
- 8 What are the costs associated with inventory?
- 9 What are the assumptions in break even analysis?
- 10 Explain the nature of Financial Management.

PART – B (5 x 10 = 50 Marks)

- 11 a) Explain the various factors affecting the location of plant.
b) What is partnership deed? Mention types of partners and compare partnership with sole proprietorship.
- 12 a) Explain the principle of motion economy related to human body.
b) Explain who handed process chart with suitable example.
- 13 a) Explain any two wage payment plans.
b) Compare line organizations structure with line and staff organization structure.
- 14 a) Explain the importance of quality circle.
b) The following table gives the result of inspection of 50 items per day for 20 days. Construct the fraction defective chart and give inference about the process.

Day	1	2	3	4	5	6	7	8	9	10
No. of Defectives	4	0	2	2	5	2	3	1	2	3
Day	11	12	13	14	15	16	17	18	19	20
No. of Defectives	2	0	3	3	2	4	5	1	0	4

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15 a) Find the optimum assignment for minimum total cost for the following :

	Machines			
Jobs	P	Q	R	S
A	15	13	14	17
B	11	12	15	13
C	13	12	10	11
D	15	17	14	16

b) A particular item has a demand of 9000 units per year. The cost of one procurement is Rs.100 and the holding cost per unit is Rs.2.4 per year. The replacement is instantaneous and no shortages are allowed. Determine
 1. Economic lot size 2. No of orders per year 3. Time between order 4. Total cost per year if the cost of one unit is Rs.10.

16 a) Explain how do you calculate selling price of a product with suitable example.

b) Explain sinking fund and sum of year's digit method of depreciation.

17 Write short notes on the following :

a) Materials purchase b) Acceptance sampling c) Financial Leverage
