

Code No.: 5154

## FACULTY OF ENGINEERING B.E. 4/4 (ECE) I Sem. (Main) Examination, December 2011 INDUSTRIAL ADMINISTRATION AND FINANCIAL MANAGEMENT

Time: 3 Hours]

[Max. Marks: 75

Note: Answer all questions from Part B

PART A

(10×2.5=25 Marks)

Ran A Answer any five questions

- 1. Sketch the Taylor's type of organisation structure
- 2. What are advantages of locating an industry in a rural area?
- 3. Sketch the symbols used in a flow process chart.
- 4. Calculate the standard time from the given data actual time = 10.35 mts, P.R.F. = 110 per cent allowance = 120 per cent.
- 5. State with a simple example how the principles of SQC are used in quality control.
- 6. Sketch the following charts, stating the control limits
  - a) R chart

- b) P chart.
- 7. State the main objectives of material management.
- 8. State the necessary conditions where PERT is applied in a Net Work analysis.
- 9. An electronic instrument was purchased for Rs. 85,000/- the transport and erection charges amounted to Rs. 5,000/-. The estimated life of the product was 5 year calculate the annual rate of depreciation.
- Mention the salient factors to be considered for preparing a capital budget in any manufacturing industry.

PART – B

(5×10=50 Marks)

- 11. a) State the principles of management.
  - b) What are prime considerations in designing a plant layout? State the types of layouts.
- 12. a) Define the term work study. Explain the objectives and advantages.
  - b) Calculate by applying Rowan plan, the wages earned by a worker from the given data.
    - 1) Standard time = 10 hr
    - 2) Actual time = 9 hrs.
    - 3) Hourly rate = Rs. 30/-

How E.B.S. is different from EOQ?

a) What are elements of costs, and state the various types of "on costs".

b) Explain, with the help of a chart, the meaning of break even point. Derive making necessary assumption the expression for calculate the B.E.P.

16. Distinguish between the following: a) Job evaluation and merit rating b) Work simplification and work measurement.

17. Write notes on the following:

a) General principles of motion economy b) Factors affecting capital gearing.