

Ref.No. – Ex/ME/5/T/424/2019

**B.E. MECHANICAL ENGINEERING (PART TIME) FOURTH YEAR  
SECOND SEMESTER – 2019**

**INDUSTRIAL MANAGEMENT**

Time – 3 hrs

Full Marks – 100

Answer any five Questions.

1. Write Short notes on any four 5 x 4 = 20
  - a) VAM.
  - b) Product layout.
  - c) Function of Manager in industry.
  - d) Functional type organization structure.
  - e) Importance of Time Study.
  - f) Role of GANTT chart in production planning and control.
  
2.
  - a) Summarize Henri Fayol's contributions towards development of management. 10 + 10 = 20
  - b) Explain the functions of Management.
  
3.
  - a) Explain briefly different types of Forecasting methods. 10 + 10(3+2+5)= 20
  - b) What is meant by plant layout ? State about its importance. Mention about any one type of plant layout and discuss about the same.
  
4.
  - a) Write an explanatory note on A- B- C inventory analysis. 8+6+6 = 20
  - b) State and explain three important factors to select a location for developing facility.
  - c) Write an explanatory note on "Batch Production".

5. a) Explain the role of Work Study in industrial Management. 4 +6 +10 = 20

b) Break even analysis has an important role in production planning and control of any industry—Explain in details.

c) A break Even analysis for a type of product is as follows:

Fixed costs = Rs 10,00,000

Variable cost = Rs 10 per unit of product.

Revenue = Rs 15 per unit.

Determine :

i) Break – Even Quantity.

ii) Break- Even Cost.

iii) Profitability for 3,00,000 units.

6. a) State the role of control charts in Statistical quality control . 5+7+3+5 =20

b) Write the differences between PERT and CPM.

c) Explain the need of industrial Safety. Mention five Steps to control the industrial accidents.