REF NO: Ex/ME/5/T/323/2017(Old)

B.E.MECHANICAL ENGINEERING(PART TIME) THIRD YEAR SECOND SEMESTER (OLD)-2017

INDUSTRIAL MANAGEMENT

Time: Three Hours

Answer any Five questions.

1. a) Write F.W. Taylor's Scientific Management theory and justify its importance.

b) Write down the functions of a manager.

10+10=20

2. Write short notes on any four:

4X5=20

a) Importance of control chart.

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- b) Difference between PERT and CPM.
- c) Importance of time study.
- d) Break-down maintenance.
- e) ISO 9000.
- f) Delphi Technique.
- 3. a) Explain the factors which are directly related for the selection of facility location.
 - b)Describe the different types of layout system with their advantages and disadvantages. 10+10=20

[Turn over

- 4. a) Write down the advantages and disadvantages of different types of organizational structure.
 - b) Explain the classical theory of management.

10+10=20

- 5. a) State the role of work study in industrial-management.
 - b) Explain Break-even analysis with diagram.
 - c) A pump manufacturing company has its capacity to manufacture 700 pumps per year. The variable cost of a pump is Rs 600 and selling price is Rs 800. Fixed overheads are Rs 20000 per year. Find out the break-even points for output and sales and show what will be the profit earned by the company if output is 92% of capacity.

 4+6+10=20
- 6. a) Explain the objectives of inventory control.
 - b) Write short notes on the following:
 - i) ABC analysis
- ii) Flow process chart
- c) A manufacturer wishes to know what the economic quantity should be for a plastic impeller when the following is available:

The average daily requirement is 180 units and the company has 250 working days a year, so that the yearly requirement is approximately 50000 units a year. The manufacturing cost is Rs 2 per unit. The sum of the annual rate of interest, insurance, taxes and so forth is 20% of the unit cost and the cost of preparation is Rs 70 per lot.

4+8+8=20

- 7. a) State the role of inspection in Quality control.
 - b)Describe the importance of control charts.
 - c)Explain the following terms:
 - i)Float
- ii) Dummy activity
- iii)Crashing

5+6+9=20