

Ref. No.- Ex/ ME/ 5/ T/ 424/2018.

B.E. MECHANICAL ENGINEERING (PART TIME) FOURTH YEAR SECOND SEMESTER- 2018.

INDUSTRIAL MANAGEMENT

Time – 3 hrs

Full Marks- 100

Answer any five Question

- 1) A) Draw an organization chart of any one type of organization structure and explain the same.
B) How did F.W. Taylor contribute to the development of management thought and ideas?
10 + 10 =20
- 2) A) Write down the function of a manager of an industry.
B) Explain the factors which are directly related for the selection of facility location.
10 + 10 =20
- 3) A) Explain the classification of work study.
B) Describe one type of layout system with advantages and disadvantages.
10 + 10 =20
- 4) Write short notes on any four:-
A) Flow process chart.
B) Preventive Maintenance.
C) Method Study.
D) Gantt Chart
E) Delphi Method of Forecasting.
4 x 5 =20

- 5) A) Explain the advantages of Break Even analysis.
- B) Describe with diagram the Break – even chart.
- C) An Instrument manufacturing company has the capacity to produce 2000 instrument per year. The Variable cost of a instrument is Rs 4000 and selling of each instrument is Rs 5000. Fixed Overheads are Rs 120000 per year. Calculate the break even points for output and Sales.

$$5 + 7+8 =20$$

- 6) A) State the role of inspection in Quality Control.
- B) What is traffic intensity ?
- C) Explain the limitation of ABC analysis ?
- D) The rate of use of a particular raw material from a store is 20 units per year. The ordering cost is Rs 40 per order. The cost of each unit is Rs 100. The inventory carrying cost is 16 % of the item cost per year.

Find i) EOQ ii) Re-order Point, if the lead time is 3 months.

$$4+ 3+3 +10 =20$$

- 7) A) Explain the flowing:-
- i) Critical activities. ii) Dummy activities. iii) Negative Float.
- B) Describe the differences between PERT and CPM.
- C) Draw the network comprising following activities.
- i) A and B start immediately.
- ii) A is the predecessor of E.
- iii) F depends on the completion of B .
- iv) D depends on the completion of both A and B.
- v) E- is the Predecessor of G.

$$6+6 +8 =20$$