

BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING) FOURTH YEAR SECOND
SEMESTER-2024

INDUSTRIAL MANAGEMENT

Time: 3hrs

Full Marks :100

Answer any **five** questions.

1. Write short note on any four:

4X5=20

- a) Role of GANTT chart in production planning and control.
- b) Value Engineering
- c) Delphi Technique
- d) Method study
- e) Preventive Maintenance

2.a) Write the objectives of Inventory control.

4+8+4+4=20

- b) Explain with diagram-
 - i) ABC analysis ii) Operation process chart
- c) State the role of inspection in Quality Control.
- d) Briefly describe the role of control charts in statistical quality control.

3. 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.10,00000

Variable costs = Rs 10 per unit of product.

Revenue = Rs 15 per unit.

Determine:

- i) Break-Even quantity
- ii) Break-Even cost
- iii) Profitability for 5,00,000 unit.

10+10=20

4. a) Explain the different criterion to select the facility location appropriately.

b) What are the various types of plant layout? Explain with their advantages and disadvantages.

5. a) Write down the advantages of line and staff organisation. 6+6+8=20
b) Describe the major functions of a manager of an organisation.
c) Write F.W Taylors scientific management and justify its importance.
6. a) Write the difference between PERT and CPM. 6+4+10 = 20
b) Define slack and float.
c) Explain the need of Industrial safety. Mention various steps to control the industrial accident.