

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ME) (Sem.-7, 8)
INDUSTRIAL ENGINEERING AND MANAGEMENT
Subject Code : BTME-801
M. Code : 71994
Date of Examination : 18-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

1. Answer briefly :

- a) What do Industrial Engineers do?
- b) What are Maslow's hierarchy of human needs?
- c) Enumerate the importance and characteristics of an organization.
- d) Enumerate the dimensions of planning function in an organization.
- e) Explain systems approach to management.
- f) Define group technology.
- g) What is Just-in-Time (JIT)? Enumerate the principles of JIT.
- h) State the importance of micro motion study.
- i) Define span of control. Enumerate the factors impacting Span of Control.
- j) Define value engineering.

SECTION-B

2. Discuss the qualities of a good Industrial Engineer.
3. Write short note on Mc-Gregor's theory X and Y.
4. Differentiate between product layout and process layouts by showing appropriate examples.
5. Explain in brief various charts and diagrams utilized in method study.
6. What are various types of values? Discuss various phases of value engineering.

SECTION-C

7.
 - a) Discuss the salient characteristics, advantages, disadvantages and applications of Matrix organization.
 - b) What is standard time for completing a job? Discuss various allowances given to operators/workers.
8.
 - a) Discuss the factors affecting the productivity of the manufacturing organization.
 - b) Differentiate between cumulative timing and fly back timing.
9.
 - a) Explain the factors to be considered for selection of location for the plant.
 - b) Discuss the approaches to effective decision making in an organization.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.