*R20 Regulation* *Subject code: 3E7CE*

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

**B.Tech VII Semester Supplementary Examinations, May 2026**

## INDUSTRIAL ENGINEERING AND MANAGEMENT

**(ME)**

***Maximum Marks: 70*** Date: 14.05.2026 Duration: 3 hours

**Note:** **1.This question paper contains two parts A and B.**
**2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.**
**3. Part B consists of 5 Units. Answer any one full question from each unit.**
**4. Each question carries 10 marks and may have a, b, c, d as sub questions.**

Part-A

| All the following questions carry equal marks (10X2M=20 Marks) | | Marks | CO | BTL |
|---|---|---|---|---|
| 1 | What are the objectives of good layout? | 2M | 1 | L1 |
| 2 | Define organization as a structure. | 2M | 1 | L1 |
| 3 | What is planning and control? | 2M | 2 | L1 |
| 4 | Define work sampling with an example. | 2M | 2 | L1 |
| 5 | Write the types of plant layouts? | 2M | 3 | L1 |
| 6 | Write the inventory control techniques? | 2M | 3 | L1 |
| 7 | What is routing and scheduling? | 2M | 4 | L1 |
| 8 | Write the marketing functions? | 2M | 4 | L1 |
| 9 | Write the functions of HR Manager? | 2M | 5 | L1 |
| 10 | List any two trade union in india? | 2M | 5 | L1 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | Marks | CO | BTL |
|---|---|---|---|---|
| 11 | Explain the functions of management and discuss the role of a manager. | 10M | 1 | L2 |
| | OR | | | |
| 12 | Define leadership. What are the characteristics of leadership? | 10M | 1 | L2 |
| 13 | Discuss the types of plant layout with suitable examples and discuss the applications. | 10M | 2 | L2 |
| | OR | | | |
| 14 | Explain Job, mass and batch production along with merits and demerits. | 10M | 2 | L2 |
| 15 | Explain the ABC analysis in inventory control with graph. | 10M | 3 | L2 |
| | OR | | | |
| 16 | Explain the functions of purchase department. | 10M | 3 | L2 |
| 17 | Differentiate between buyers market and sellers market. | 10M | 4 | L2 |
| | OR | | | |
| 18 | Define work study. Explain the steps in work study along with their importance. | 10M | 4 | L2 |
| 19 | Write the basic functions of HR manager? | 10M | 5 | L2 |
| | OR | | | |
| 20 | Explain the salient future of Indian factories Act 1948. | 10M | 5 | L2 |