

Enroll No

K.E.Society's  
**Rajarambapu Institute of Technology, Rajaramnagar**  
 (An Empowered Autonomous Institute, affiliated to SUK)  
**Mid-Sem Exam (MSE) (2025-26)**  
 Final Year B.Tech. Automotive Technology

Q.P. Code
M 40

**Course Code: AT4151**

**Course Name: Industrial Engineering**

Day & Date: Friday 19/09/2025

Time: 3:15 To 5:15

Max Marks- 50

- Instructions:**
- 1) All questions are compulsory.
  - 2) Figures in rounded ( ) brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
  - 3) CO is the index number of the Course Outcome statement.
  - 4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.
  - 5) Assume suitable data if necessary.
  - 6) Use of non-programmable calculators is allowed

	Marks	BT Level	COs
Q.1 A Explain the following types of industries with their examples. (i) Primary industry (ii) Secondary industry OR	06	2	1
Q.1 A Explain the following types of industries with their examples. (i) Agro based industries (ii) Mineral based industries	06	2	1
Q.1 B Compare Production and Productivity	06	3	1
Q.1 C Explain the following; (i) Total productivity (ii) Partial productivity	04	2	1
Q.2 A A company manufacturing nuts and bolts is required to select a plant layout. Explain the factors affecting selection of a plant layout. Select a suitable plant layout for this application and justify your selection	08	5	2
Q.2 B What is the criteria for selection of a plant location? Explain it with an illustrative example.	08	3	2
Q.3 A 'Work study is a tool to improve productivity' - Justify the statement with appropriate examples.	08	4	3
Q.3 B Explain the procedure for critical examination to be done while doing Method Study.	06	2	3
OR			
Q.3 B Explain the criteria for selection of a job for Method study	06	2	3
Q.3 C Distinguish between Outline process chart and Flow process chart	04	3	3

OR



Q.3 C Distinguish between Motion study and Micromotion study

Marks	BT Level	COs
04	3	

