

Reg No.: _____ APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Question Paper Code:
IAR0822212-I

M.Tech S2 (R,S) Exam June 2022
(Pages: 2)

Reg. No: _____

SECOND SEMESTER M.TECH. DEGREE EXAMINATION JULY 2022

Branch: Mechanical Engineering

Specialization: Industrial Automation and Robotics

08ME6312 INDUSTRIAL AUTOMATION

Time: 3 Hours

Max. Marks: 60

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q. No.	Module 1	Marks
1.a	What is a storage buffer? What is its function?	3
	Answer b or c	
b	Explain various reasons for implementing automation of manufacturing systems.	6
c	What do you mean by transfer lines? Give examples.	6
Q. No.	Module 2	Marks
2.a	What do you mean by the terms <i>accessibility</i> and <i>system throughput</i> in storage systems?	3
	Answer b or c	
b	Discuss briefly the types of storage location strategies employed in material handling.	6
c	What is meant by AS/RS? How is it implemented in FMS?	6
Q. No.	Module 3	Marks
3.a	How are images interpreted in Machine Vision?	3
	Answer b or c	
b	Discuss the procedure and applications of automated inspection in manufacturing.	6
c	Discuss the basic functions of machine vision with a neat sketch.	6



