Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2022

Subj	ject (Code:3161926 Date:21/	06/2022	
Subj	ject l	Name:Industry 4.0		
	Γime:10:30 AM TO 01:00 PM Total M		arks: 70	
Instru				
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
	4.	Simple and non-programmable scientific calculators are allowed.	MARKS	
Q.1	(a)	What is other physical system?	03	
	(a) (b)	• • •	03	
	(c)		07	
Q.2	(a)	, , , , , , , , , , , , , , , , , , , ,	03	
	(b)	· · · · · · · · · · · · · · · · · · ·	04	
	(c)	·	07	
	(-)	OR	07	
	(c)	Elaborate Technologies behind Industrial revolution 4.0.	07	
Q.3	(a)	Why should you implement industry 4.0 solutions?	03	
	(\mathbf{b})	• • •	04	
	, ,	reasons for its implementation.		
	(c)		07	
Q.3	(a)	OR How much does it cost to implement an industry 4.0 solution?	03	
	(a) (b)		03	
	(\mathbf{c})	•	07	
		1		
Q.4	(a)	•	03	
	(b)		04	
	(c)	Explain the Industrial Robotics applications in context of 1) Manufacturing 2) Maintenance 3) Assembly 4) Training OR	07	
Q.4	(a)		03	
	(b)	-	04	
	(c)	•	07	
Q.5	(a)	What is 5G and how will it accelerate industry 4.0?	03	
	(b)	•	04	
	(c)	Explain the legal framework conditions for the industry 4.0.	07	
		OR		
Q.5	(a)	•	03	
	(b)	·	04	
	(c)	What do you understand by smart factories and how do you propose the application of Artificial Intelligence and robotics will be beneficial in its implementation?	07	
