

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023****Subject Code:3161716****Date:11-12-2023****Subject Name:Industry 4.0****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Write difference between Industry 1.0 and Industry 2.0	03
	(b) Compare Industry 3.0 and Industry 4.0.	04
	(c) What is the digitalization? Discuss in detail about impact on new digital economy.	07
Q.2	(a) What is Industrial internet?	03
	(b) Which are the key supportive IIoT technologies?	04
	(c) What is Internet of services? Explain in detail about smart cities.	07
	OR	
	(c) Explain predictive analytics for smart business transformation.	07
Q.3	(a) List the various Industry 4.0 related Disciplines.	03
	(b) What is mobile computing? Discuss its advantages.	04
	(c) Discuss in detail about Cyber-Physical systems.	07
	OR	
Q.3	(a) List the countries are involved in development of IoT.	03
	(b) List the types of cyber crime. Discuss in brief.	04
	(c) Discuss about the different drivers behind industry 4.0.	07
Q.4	(a) What is the cloud computing? List different clouds platforms.	03
	(b) Discuss about Harnessing Knowledge in organizations.	04
	(c) Discuss in detail about data as a new resource for smart industry.	07
	OR	
Q.4	(a) Write the characteristic of cloud.	03
	(b) Explain about the skills required for workers in Industry 4.0 era.	04
	(c) What is Big Data? Discuss about Usefulness of data in various industries.	07
Q.5	(a) Discuss various opportunities in industry 4.0.	03
	(b) Explain different challenges for industry 4.0.	04
	(c) What is the IIoT? Discuss any one IIoT case study in detail.	07
	OR	
Q.5	(a) What is/are the strategies of business for competing in an industry 4.0 era?	03
	(b) Explain about the future of works in Industry 4.0 era.	04
	(c) What is IoT? Discuss any one IoT case study in detail.	07
