Seat No.:	Enrolment No.

CHIARAT TECHNOLOGICAL UNIVERSITY

~	. ~	BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 20	22
•		ode:3171930 Date:07-	-01-2023
Subje	ct Na	me:Industrial Internet of Things	
Time:	10:30	0 AM TO 01:00 PM Total M	arks:70
Instruc	tions:		
		ttempt all questions.	
		ake suitable assumptions wherever necessary.	
		gures to the right indicate full marks.	
	4. Si	mple and non-programmable scientific calculators are allowed.	MARKS
Q.1	(a)	List the major benefits of IIOT.	03
	(b)	Examine how IOT in smart office helps better productivity.	04
	(c)	Explain in detail the architecture of Industrial Internet of Things.	07
Q.2	(a)	Define Big Data.	03
	(b)	Distinguish between Structured and unstructured data.	04
	(c)	Describe in details any 3 Applications of AI in INDUSTRY 4.0 (IIOT) with its advantages and disadvantages OR	07
	(c)	Demonstrate and explain how Ahmadabad can be converted into a smart	07
	(0)	city with the applications of IOT in smart cities.	U7
Q.3	(a)	List the viewpoints in Industrial internet.	03
	(b)	Explain System lifecycle process.	04
	(c)	Describe how functional viewpoint is used in business domain, Explain with examples	07
		OR	
Q.3	(a)	Distinguish between artificial Intelligence and Machine learning.	03
	(b)	List the security models employed in IOT.	04
	(c)	Describe in details about Application Programming Interface (API)	07
Q.4	(a)	What are the components of a cyber-physical system?	03
	(b)	Enlist the applications of big data platforms in CPSs.	04
	(c)	Explain dimensions of the successful implementation of industrial cyber physical systems.	07
0.4	()	OR	0.2
Q.4	(a)	Enlighten the concept of Augmented Reality.	03
	(b)	Enlist the Industrial applications of AR.	04
	(c)	Explain the application of IIOT in Smart Logistics Management.	07
Q.5	(a)	Difference between IoT and IIoT	03
	(b)	Examine how predictive maintenance is done using IIOT.	04
	(c)	Design and explain architecture to implement IOT for health care in a	07
		hospital where Covid situation must be controlled via IOT. OR	
Q.5	(a)	What is Cloud Computing?	03
Q. .5	(b)	Benefits of Cloud Computing	03
	(c)	Design a Virtual Machine to manage the control room of COVID	07
	(0)	DISASTER MANAGEMENT with your own specifications	01