

INDUS UNIVERSITY IITE Constituent Institutes of Indus University

X-CE0622 -005

Semester:

Branch:

CE/IT/CSE

END SEMESTER EXAMINATION - MAY 2023

Subject Code:

CE0622

Subject Name:

Internet of Things

Date:

15/05/2023

Time:

02:00 PM-05:00 PM

Day:

Monday

Total Marks:

100

Instructions:

- 1. Attempt all questions
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicates full marks

Q.1	A	List the applications of IoT in various fields. Explain any three application in detail with a proper example.	10
	В	Draw block diagram of Physical Design of loT and explain each block in detail.	10
Q.2	A		10
	В	Explain SaaS, PaaS, laaS in detail.	10
Q.3	A	Discuss various security and privacy issues in the Internet of things.	10
	В	Draw open IOT architecture and explain each block in detail.	10
Q.4	A	List the features of ESP8266. Compare ESP8266 and Arduino board.	10
2.5	В	What is cloud computing ? What are Basic Cloud Characteristics? Any Four	10
	A	Draw the connection diagram of interfacing a buzzer with arduino and write a program to generate different tone using PWM.	05
	9-5-		

- B Write a program to interface Ultrasonic sensor with arduino board. 05
- C Write a program to Interface LDR sensor and print light intensity on serial terminal. 05
- D Explain the use of the following functions of arduino. 05
 - 1. analogWrite()
 - Serial.println()
- Describe GPIO library and its functions available in raspberry pi.

05

- 1. WiFi.begin()
- 2. WiFi.config()

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