

CBCS SCHEME

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18IC72

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 Big Data Analytics of IOT

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is IoT analytics lifecycle, and what are the techniques used at each stage of this lifecycle? (10 Marks)
b. Explain Functional Architecture of IoT and Bigdata platform with the figure. (10 Marks)

OR

- 2 a. Discuss in detail about Low-cost LoRa Implementation. (10 Marks)
b. List and explain various requirements allowing building an IoT analytics platform. (10 Marks)

Module-2

- 3 a. With a neat diagram, explain edge node components. (10 Marks)
b. Explain the challenges in building an IoT search Engine. (10 Marks)

OR

- 4 a. Describe the architectural components and structure of the SMART framework. (10 Marks)
b. Explain the VITAL Architecture for IoT Analytics Applications. (10 Marks)

Module-3

- 5 a. Explain the properties of Sensing – as – a – service Infrastructure. (10 Marks)
b. Explain the Functional blocks of Open IoT's project analytics as a service architecture. (10 Marks)

OR

- 6 a. Describe Pushing Data to LSM. (10 Marks)
b. Explain Architecture towards the linked open Reasoning. (10 Marks)

Module-4

- 7 a. Describe the layers of the base architecture for Smart buildings ecosystem. (10 Marks)
b. Discuss the different stages the must be carried out to achieve efficiency building energy management. (10 Marks)

OR

- 8 a. What are the components included in the Geelytics platform? Explain. (10 Marks)
b. List and explain New challenges towards Edge – based solutions. (10 Marks)

Module-5

- 9 a. Elaborate on the transition from the Internet of Things (IoT) to a Data – Driven Economy and Society. (10 Marks)
b. Illustrate a Practical Example based on Footfall data. (10 Marks)

OR

- 10 a. List and explain activities and phases involved in CRISP – DM. (10 Marks)
b. Describe Way Forward with IoT. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.