

QP CODE: 26019659



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc Artificial Intelligence

ELECTIVE - AI800404 - INTERNET OF THINGS

2020 Admission Onwards

62F8712E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are called routers?
2. Explain the concept of multipoint data transfer and its applications in network communication.
3. What is cloud computing?
4. What do you mean by the term heterogeneity?
5. Explain the functions of message broker.
6. What is MQTT?
7. Explain the role of web server software.
8. What are the four key concepts of HTML?
9. What are the advantages and disadvantages of CSS?
10. List IoT applications in day to day life.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. What are the different types and features of a hub?
12. Explain fragmentation and mesh addressing in 6LoWPAN.
13. With suitable diagram, Explain CoAP message format.





14. Explain MySQL datatypes in detail.
15. Explain various datatypes in MongoDB.
16. Explain (i)JSON syntax (ii)JSON schemas (iii)JSON datatypes
17. Write four distinct industrial revolutions that the world experienced today.
18. What are some of the main differences between Arduino and Raspberry Pi?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain data transfer referred with OSI model.
20. Define the IoT Networking Core and comprehensively explain its architecture, protocols, and components.
21. What is 6LoWPAN? Discuss optimizing IP for IoT Using an Adaptation Layer.
22. Design a high-level IoT architecture for a smart home system, including all necessary layers and components.

(2×5=10 weightage)

