



QP CODE: 25024926



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Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc Artificial Intelligence

ELECTIVE - AI800404 - INTERNET OF THINGS

2020 ADMISSION ONWARDS

BD5D719E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Explain mesh topology.
2. List out various features of hub.
3. What is cloud computing?
4. Give an example for self adapting and self configuring technology.
5. Write any 4 application domains of IoT.
6. Explain mysql_connect() function.
7. List out rules for creating PHP variable. Give an example for valid and invalid variable.
8. What are the three types of text inputs used on forms?
9. Explain jQuery.
10. Mention some applicaion of ARM.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. List features of line configuration in network.
12. Explain IoT Application Layer Protocols.





13. Analyze MQTT and HTTP protocols' performance characteristics (e.g., latency, bandwidth, scalability) in IoT scenarios and compare their suitability for different use cases.
14. Explain datatypes in PHP.
15. Explain request processing in apache.
16. Explain fundamentals of HTML.
17. What are the differences between M2M and IoT?
18. Give some application of IoT in home appliances.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain networking basics OSI model.
20. Write a comprehensive note on point-to-multipoint data transfer, discussing the technologies and protocols used, and how they enable efficient communication between a single sender and multiple recipients.
21. Explain about IoT communication pattern.
22. Briefly explain concepts of industry 4.0.

(2×5=10 weightage)

