

S.NO: 22N1- PCS

Course Code: PGXE5

A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM

(AUTONOMOUS)

M.Sc (Computer Science) Degree Examination

III Semester – November – 2022

EC V – INTERNET OF THINGS

Time: 3 hours

Maximum Marks: 75

Section –A

10X2=20

Answer **ALL** the Questions

1. Why semantics for the interoperable IoT?
2. Mention the purpose of web-socket.
3. How LPWAN technologies are superior than Bluetooth for M2M communication?
4. Give examples of Net functions virtualization.
5. What are the characteristics of low-powerlossy networks?
6. How mDNS is very space flexible in IoTservice discovery?
7. Define information model.
8. What is the major function of M2M gateway?
9. What is the 2nd factor of authentication?
10. How storage backup is ensured by using RAID for hard disk?

Section -B

5X5=25

Answer **ALL** the Questions

11. a) What are the constraints of REST-based communication APIs? Explain.

(or)

b) Illustrate the services for customers Industrial IoT.

12. a) What are the LPWAN network topologies? Explain

(or)

b) Discuss the key cross OS platform for mobile development.

13. a) What is Chirp? Explain the working of Chirp.

(or)

b) Describe the layered architecture of sensor-to-cloud integration.

14. a) Distinguish between M2M and IoT.

(or)

b) Explain the key elements of SDN.

15. a) Describe the security measures for IoTplatform.

(or)

b) Explain the internal vulnerabilities in smart phones.

Section -C

3 X 10 = 30

Answer any **THREE** Questions

16. Which of the technologies play a key role in IoT? Explain.
17. What are the key features of 5G networks? Explain with neat sketch.
18. Describe the layered architecture for IoT?
19. Explain the functional and operational view specification in IoT design methodology.
20. Discuss the security threats for big data analysis.

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