LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – **NOVEMBER 2019**

18PCS3ES04 – INTERNET OF THINGS

Date: 06-11-2019 Dept. No. Max. : 100 Marks

Time: 09:00-12:00

Part – A

Answer ALL the questions **10 x 2 = 20 marks**

1. State any two categories of enabling technologies.
2. Identify any two important user categories of Smart Tourism.
3. What is Technical Specification?
4. Stress the need for Identity Management.
5. Why IPV6 is superior to IPV4?
6. What is DigCovery?
7. What isiCORE?
8. State the main objective of OSMOSE.
9. Give any four main components of parking control application.
10. Mention any two advantages of Self Organizing Cloud Architecture.

Part – B

Answer ALL the questions **5x 8 = 40 marks**

11. a) With neat diagram, discuss IOT Layered Architecture **(Or)**

    b) Propose a suitable approach to solve the device level energy issues and explain.

12. a) Identify the challenges to support Security and privacy in the evolution of IOT **(Or)**

    b) Write an overview on policy based framework for security and privacy.

13. a) Explain about IPV6 for IoT **(Or)**

    b) Illustrate the design of use case for an IoT6 Smart Office and explain.

14. a) Explain the architecture of OpenIOT **(Or)**

    b) Explain the main components of COMPOSE with suitable example.

15. a) ExplainCALIPSO architecture with communication modules **(Or)**

    b)Describe about Self Life Management Life cycle with an example.

Part – C

Answer ANY TWO questions **2 x 20 = 40 marks**

16. a) Discuss in detail about the research challenges in Smart Applications.

    b) Explain the SecKit enforcement components with a diagram.

17. A)With a neat diagram, describe the top level architecture of IoT6.

    B)Explain in detail about IOT for Manufacturing Trials in FITMAN.

18. A) Explain about Federated Cloud Services Management reference model life cycle.

    B) Discuss IOT functional view with a diagram.

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