



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2017

16PCS3ES04 – INTERNET OF THINGS

Date: 10-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

SECTION-A

ANSWER ALL THE QUESTIONS:

(10 X 2 = 20)

1. List out Gartner usage models for IOT.
2. Write any four features of micro cloud to implement IOT applications
3. Mention any four international standard organizations of IOT.
4. Define data pseudonymization.
5. Mention any two differences between IPv4 and IPv6.
6. Write any two challenges of IOT6.
7. Write the main focus of iCORE project
8. List the planes of Open IOT middleware.
9. Who developed IPv6 architecture for low power sensor network?
10. What is TmoteSKY platform?

SECTION-B

ANSWER ALL THE QUESTIONS:

(5 X 8 =40)

11. (a) Write the fundamental characteristics of IOT.
(OR)
b) Explain the required modules functional view of IOT.
12. a) Write the definition of IOT in terms of ITU and IERC.
(OR)
b) Discuss the IEC standardization process cycle with a neat diagram.
13. a) Discuss the challenges and solutions of heterogeneous integration of IOT.
(OR)
b) Discuss IOT6 smart office Use-case.
14. a) Explain the design of iCORE project.
(OR)
b) Explain the smart Santander project phases and a fire perspective.
15. a) Elaborate the parking control main components in smart parking.
(OR)
b) Explain about IP characteristic for integration with the internet.

SECTION-C

ANSWER ANY TWO QUESTIONS:

(2 X 20 = 40)

16. (a) Explain about Network technologies used for IOT. (10)
(b) Explain concepts and motivation of the framework IOT (10)
17. (a) Explain the reasons for IOT to care about IPV6 (10)
(b) Discuss Open IOT project Design, Implementation and architecture overview. (10)
18. (a) Elaborate CALIPSO architecture with a neat diagram (10)
(b) Discuss the applications and research challenges for the following:
(i) Smart cities. (5)
(ii) Smart health (5)
