



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2022

PCS 3602 – INTERNET OF THINGS

Date: 02-12-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART – A

(10 x 2 = 20 Marks)

Q. No

Answer ALL the Questions

- 1 What are the key success factors of European IoT technology players?
- 2 What are the four basic usage models of IoT?
- 3 Write a note on OASIS.
- 4 State the objectives of GS1 standards.
- 5 What were the challenges and objectives of IoT6?
- 6 What is a content broker architecture?
- 7 What are the four stages of project lifetime?
- 8 Write a note on COMPOSE.
- 9 Define RPL.
- 10 What are the three main roles of Open Authorization?

PART – B

(5 x 8 = 40 Marks)

Answer ALL the Questions

- 11 (a) Write a note on food, water tracking and security. Explain the need to have a development framework for IoT applications.
(Or)
(b) Write a note on i) Message Queue Telemetry Transport ii) CONstrained Applications Protocols and iii) Java message service API.
- 12 (a) Describe the need for trust, security and privacy for IoT.
(Or)
(b) Explain Identity management in the IoT framework.
- 13 (a) Elucidate the enabling of heterogenous integration in IoT
(Or)
(b) Explain IPv6 for IoT.

14 (a) Illustrate the project results of the Open IoT implementation with a neat diagram.

(Or)

(b) Discuss the design of iCORE project.

15 (a) Describe the performance metrics of IoT prototypes.

(Or)

(b) Explain cloud data management and cloud monitoring.

PART – C

(2 x 20 = 40 Marks)

Answer any TWO Questions

16 (a) Write in detail about the networks and communications of IoT devices (10)

(b) Explain the main concepts and motivation of the IoT framework. (10)

17 (a) Explain the project design and implementation issues of Open IoT . (10)

(b) Explain AW and EPC test cases of IoT for manufacturing. (10)

18 (a) Explain the Smart Parking system of the CALIPSO project with a functional architecture diagram (10)

(b) Write in detail about Self Management Lifecycle. (10)

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