

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



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

**SECOND SEMESTER – APRIL 2022**

**PDS 2602 – INTERNET OF THINGS IN THE CLOUD**

Date: 24-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

**Q. No**

**Answer ALL questions**

**(10 x 2 = 20 Marks)**

- 1 What is IOT?
2. What are functional requirements in IOT?
- 3 What is Middleware in IOT?
- 4 What are the features of IOT PROTOCOLS?
- 5 What is Unified Data Standards?
- 6 Define WOT?
- 7 What is Zigbee?
- 8 What is Cloud Middleware
- 9 What is the Small World Phenomenon?
- 10 What is Software Agents in IOT?

**PART – B**

**Answer FIVE questions**

**(5 x 8 = 40 Marks)**

- 11 i) Explain DNA OF IoT  
Or  
ii) Explain Four Pillar of IOT
- 12 i) Write short notes on Issues with IoT Standardization  
Or  
ii) Write notes on M2M and WSN Protocols
- 13 i) Compare Web of Things and Internet of Things  
Or  
ii) Explain Cloud of Things Architecture
- 14 i) Write notes on Network Effects  
Or  
ii) Explain Cascading Behavior in Networks
- 15 i) Write notes on Applications of IOT  
Or  
ii) Explains Role of the IOT in Collaborative Production Environments

**PART – C**

**Answer any TWO question**

**(2 x 20 = 40 Marks)**

- 16 i) Explain Toolkit Approach in IOT  
ii) Explain ZIGBEE Protocol and KNX protocol
- 17 i) Explain Integrated Billing Solutions in the Internet of Things.  
ii) Explain Resource Management in the Internet of Things
- 18 i) Explain Smart Grid Application in IOT  
ii) Write impact of IOT Based Electrical Vehicle.

#####