

1T00162 - M.C.A. (SEM-II) (R-2020-21) / 70655 - Elective I : Internet of Things
QP CODE :10043643 DATE :5 JAN 2024

N.B.: (1) Question No.1 is compulsory

(2) Attempt any THREE Questions between Question No.2 to 6

Q.1. Answer ANY FOUR [20]

- (a) List IoT Communication APIs and explain them in brief.
- (b) Differentiate between IoT and M2M.
- (c) Explain need for IoT security.
- (d) What is Web of Things? How is it different from Cloud of Things.
- (e) Explain Role of Big Data Analytics and Wireless Sensor Networks in IoT.

Q.2.

- (a) Explain ETSI using suitable diagram. [10]
- (b) Discuss IoT domain model with reference to IoT Reference model. [10]

Q.3.

- (a) Explain IoT level-1, level-2 and level-3 with help of diagrams. [10]
- (b) Design an IoT system for smart City. [10]

Q.4.

- (a) Give the steps involved in IoT design methodology and explain function view specification and operation view specification. [10]
- (b) Explain Functional view with reference to IoT Reference Architecture using suitable example. [10]

Q.5.

- (a) Discuss SOA and cloud computing in IoT [10]
- (b) Explain Cloud of Things Architecture with suitable diagram. [10]

Q.6.

- (a) Describe how agriculture can be improved using IoT. [10]
- (b) Write short note on BAC Net Protocol and ZigBee. [10]
