

TIME: (3 Hours)

[Total Marks: 80]

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) Explain IoT Functional blocks in logical design.
- (b) What are issues related to IoT Protocol standardization.
- (c) List and explain the Communication APIs used by IoT.
- (d) Cloud middleware.
- (e) Explain Role of Big Data Analytics and Wireless Sensor Networks in IoT.

Q.2. (a) Explain OGC architecture using suitable diagram. [10]

(b) Discuss IoT domain model with reference to IoT Reference model. [10]

Q.3. (a) With suitable diagrams explain IoT level-1, level-2 and level-3. [10]

(b) Design an IoT system for Smart Environment. [10]

Q.4. (a) Explain in brief the steps involved used in IoT design methodology. [10]

(b) What are the elements of IoT security? Explain Threat analysis in IoT System. [10]

Q.5. (a) Discuss SOA and cloud computing in IoT. [10]

(b) Explain in brief Information view and Deployment operation view of IoT. [10]

Q.6. (a) Explain Cloud of Things Architecture with suitable diagram. [10]

(b) Write short note on BAC Net Protocol and ZigBee. [10]
