

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]**
