

Roll No.

67217

MCA 5th Semester CBCS Scheme

(w.e.f. 2018-19)

Examination – May, 2019

INTERNET OF THINGS

Paper : 18MCA35DB1

Time : Three Hours] [Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) Describe view of IoT. 2 × 8 = 16
- (b) What do you mean by protocols ?
- (c) What do you mean by Unified Data standards ?
- (d) What is M2M ?
- (e) What is the use of sensors in mobile phones ?
- (f) What is cloud computing ?
- (g) Write short note on business models for IoT.
- (h) Explain the uses of population models.

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UNIT – I

- 2. How can you define Internet of Things (IoT) ? What are the motivating factors behind its evolution ? Also explain the architecture of IoT in detail. 16
- 3. (a) What are the applications of IoT ? Explain in detail. 8
- (b) What are the Four Pillars of IoT ? Also explain the DNA of IoT. 8

UNIT – II

- 4. (a) Why do we need protocol standardization for IoT ? Explain issues involved with it. 8
- (b) Describe Zigbee architecture in detail. 8
- 5. Explain the following : 2 × 8 = 16
- (a) SCADA and RFID Protocols
- (b) APS layer Security

UNIT – III

- 6. (a) What is the relationship between Cloud computing and IoT ? Explain in detail. 8
- (b) How the microcontroller is connected with mobile device in IoT setup ? Explain the connection to the Internet using wi-fi /Ethernet also. 8
- 7. (a) How the data is acquired from sensors ? Explain various steps involved. 8
- (b) Differentiate between Sensors and Actuators. Explain their working principles. 8

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UNIT – IV

8. (a) What is Network Dynamics ? What are various population models for IoT ? Explain. 8
(b) Differentiate between Web of Things (WoT) and Internet of Things (IoT) in detail. 8
9. Explain the following in detail : 2 × 8 = 16
(a) Architecture standardization for WoT
(b) Two Pillars of the Web .

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