MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

II SEMESTER M.C.A. INTERNAL EXAMINATIONS FEBRUARY 2020

TEST - 1

SUBJECT: INTERNET OF THINGS [MCA 5036]

Date of Exam: **18/02/2020**   Time of Exam: **09.00 AM - 10.00 AM**   Max. Marks: **15**

Instructions to Candidates:

❖ Answer ALL the questions & missing data may be suitable assumed

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1.	What are the core components of Generic Block Diagram of an IoT Device	**1**
2.	Describe the logical structure of YANG data modeling language.	**1**
3.	How Architecture Reference Model helps to establish IoT or M2M system?	**1**
4.	Differentiate IoT domain model with Information model.	**1**
5.	What are the layers involved in building of Software-Defined Networking.	**1**
6.	Describe the layered architecture involved in IoT Data communication. Also name the protocols used in the respected layer.	**2**
7.	Discuss core components of Architecture Reference Model which helps to build an IoT system?	**2**
8.	What we need IoT Systems Management? Explain any protocol which is used for IoT Systems Management.	**3**
9.	In M2M/IoT reference architecture, Explain Open Geospatial Consortium (OGC) architecture and its targeted functionalities.	**3**