**RNS Institute of Technology**

**Department of MCA**

**Question Bank (2018-2019)**

**Subject: Internet of Things(16MCA552)**

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| **Sl.No.** | **Module-I**  **M2M to IoT** |
| 1 | Describe the move from M2M to IoT. |
| 2 | Explain the three reasons how M2M and IoT has up taken. |
| 3 | What is M2M Communication? Explain the system components of an M2M solution. |
| 4 | List and explain key application areas of M2M devices. |
| 5 | With the diagram. Discuss IoT and emerging its applications. |
| 6 | Define Megatrends and Capabilities and implications for IoT. |
| 7 | Explain the role of game changers. |
| 8 | List and explain the general technology and scientific trends. |
| 9 | Explain the trends in information and communication technologies. |
| 10 | Discuss any use case example. |
| 11 | Differentiate between M2M and IoT |

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| **Sl.No.** | **Module-II**  **M2M to IoT-A Market Perspective** |
| 1 | What is Global Value Chain? |
| 2. | Differentiate between Ecosystems and Value-Chains. |
| 3. | Explain the M2M Value chains (or) Explain the inputs and outputs of an M2M value chain. |
| 4 | Describe the steps involved in IoT Value chains. |
| 5. | Briefly explain the Information Driven Value chain for Retail |
| 6 | With neat diagram, explain information driven global value chain. |
| 7 | Explain how Reference architecture and Applied architecture involve to provide system solution? |
| 8 | Explain main design principles and needed capabilities of IoT. |
| 9 | Explain IoT architecture outline with a diagram**.** |
| 10 | List the fundamental roles of information-driven global value chain. |

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| Sl.No. | **Module III**  **M2M and IoT Technology Fundamentals** |
| 1. | Define Device. |
| 2. | List and explain the properties of device. |
| 3. | Discuss the types of devices. |
| 4. | Discuss the deployment scenarios for devices |
| 5. | What are Gateways. Explain. |
| 6. | Define network. |
| 7. | Discuss about Local and wide area networking. |
| 8. | List and explain key technologies of distributed M2M application and IoT. |
| 9. | Define Data Management. Explain the key characteristics of M2M. |
| 10. | How data is managed in M2M? |
| 11. | Explain in detail about the business processes in IoT. |
| 12. | Explain in detail about distributed business process in IoT. |
| 13. | Define cloud computing and its characteristics. (or) Explain Everything as a Service (XaaS). |
| 14. | Difference between Software as a Service (SaaS), Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) **(or)** Explain different cloud computing service models. |
| 15. | List and explain cloud computing deployment models. |
| 16. | Analyse the data between M2M and IoT Analytics |
| 17. | Explain the different example of data mining methods and purposes.(data mining purposes and considerations) |
| 18. | Explain the characteristics of Bigdata described by four V’s |
| 19. | With the diagram. Explain analytics architecture overview. |
| 20. | Explain CRISP-DM Process Diagram. |
| 21. | Explain   1. Business Understanding 2. Data Understanding 3. Data Preparation 4. Modelling 5. Evaluation 6. Deployment 7. Knowledge Management 8. Knowledge Management reference architecture |
| 22. | What are the two main forms of retrieval layer? |