

Register No.:

**1684**

**October 2024**

*Time - Three hours*  
*(Maximum Marks: 100)*

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
  2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART - A**

1. Define cloud computing.
2. Define security in cloud computing.
3. List any three service providers of Platform as a Service (PaaS).
4. Define Infrastructure as a Service (IaaS).
5. Define encryption.
6. Write note on virtualization security management.
7. Draw the generic block diagram of an IoT device.
8. List the IoT levels.
9. List the way to integrate the devices and components of an IoT system.
10. List any three commands in Raspberry-Pi.

[Turn over.....

PART - B

11. (a) (i) Explain the components of cloud with a neat diagram.(7)  
(ii) Describe the essential characteristics of cloud computing.(7)  
(Or)  
(b) Discuss about cloud scenarios and web services.
12. (a) (i) Explain the benefits of Software as a Service (SaaS).(7)  
(ii) Describe about the cloud delivery model.(7)  
(Or)  
(b) Discuss about the cloud deployment models.
13. (a) Explain the cloud computing security challenges.  
(Or)  
(b) Draw and explain about the CSA cloud reference model.
14. (a) Define Internet of Things (IoT). Describe the various characteristics of IoT.  
(Or)  
(b) (i) Explain the network layer of IoT protocols.(7)  
(ii) Describe the role of wireless sensor networks in an IoT system.(7)
15. (a) Discuss the way to define process specification while developing an IoT system.  
(Or)  
(b) Describe the basic building blocks of an IoT device with a neat block diagram.

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