

Register No.:

548

April 2023

*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. List three examples of cloud services.
2. Define high scalability architecture.
3. Write about SPI framework.
4. List the major LaaS service providers.
5. Draw the CSA reference model.
6. List out the issues in handling virtual threats.
7. Draw the generic block diagram of an IoT device.
8. Draw the Exclusive-Pair communication model block diagram of an IoT system.
9. Briefly discuss the Application Development step in IoT system design.
10. What is an IoT device?

PART – B

11. (a) (i) Discuss the security issues in cloud, in detail. (7)
(ii) Explain the security benefits of cloud. (7)

(Or)

[Turn over.....

- (b) Write short notes on:
(i) High Performance Computing. (7)
(ii) Utility computing and Grid computing. (7)
12. (a) (i) Explain the evolution of SPI. (7)
(ii) Compare and contrast SPI model and traditional IT model. (7)
(Or)
(b) Explain the various cloud deployment models.
13. (a) Discuss in detail the Cloud Security Alliance Model with a neat diagram.
(Or)
(b) How to ensure security for a virtualization environment? Explain.
14. (a) Explain the various Application Layer of IoT protocols.
(Or)
(b) How a Level-6 IoT system is designed and deployed? Explain with a neat diagram.
15. (a) How to define the Information Model of an IoT system? Explain.
(Or)
(b) (i) Explain any two IoT devices available in market. (7)
(ii) Explain R-Pi Interfaces. (7)