

405

October 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. Write short notes on web services.
3. List few SaaS service providers.
4. What are the models available for cloud deployment?
5. Define encryption. How encryption helps in securing the data in cloud?
6. Draw the CSA reference model.
7. List the characteristics of IoT.
8. Define cloud computing.
9. List the various flavors of Linux supported by Raspberry Pi.
10. What is the use of GPIO pins?

PART – B

11. (a) (i) Explain the essential characteristics of cloud computing. (7)
(ii) Explain utility and enterprise grid computing. (7)
- (Or)
- (b) Explain about cloud scenarios and web services.
12. (a) Discuss the blocks of cloud architecture with a neat diagram.
(Or)
- (b) Discuss the cloud deployment models.
13. (a) Discuss the Cloud Security Alliance Model with a neat diagram.
(Or)
- (b) (i) Explain virtualization security management. (7)
(ii) Explain the security issues to overcome virtual threats. (7)
14. (a) Define internet of things. Explain characteristics of IOT.
(Or)
- (b) (i) Explain the role of Wireless Sensor Networks in an IoT system. (7)
(ii) How does Big Data Analytics help in building an IoT system? Explain. (7)
15. (a) Explain the Process and Requirements step for an IoT system design with a neat diagram.
(Or)
- (b) Discuss in detail about Raspberry Pi board.
