

1018

April 2025

*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 horizontal scaling
2. Write the components of cloud computing.
3. List any three IaaS service providers.
4. List out the advantages of cloud computing.
5. Define encryption.
6. List out virtual threats in cloud computing.
7. Define IoT.
8. What is embedded system?
9. List the building blocks of IoT device.
10. Write about IoT level specification.

[Turn over ...]

**PART - B**

11. (a) (i) Write in detail about the origin of cloud computing. (7)  
(ii) Describe the essential characteristics of cloud computing. (7)  
(Or)  
(b) Discuss about security concerns in cloud computing.
12. (a) Explain the cloud architecture with a neat diagram.  
(Or)  
(b) Discuss about the cloud deployment models.
13. (a) Discuss about the types of security policy.  
(Or)  
(b) Draw and explain about the Cloud Security Alliance (CSA) reference model.
14. (a) Explain about the functional blocks in IoT.  
(Or)  
(b) Discuss about the wireless sensor network and embedded systems in IoT enabling technologies.
15. (a) Write the steps in domain model specification while designing an IoT system.  
(Or)  
(b) Describe Raspberry Pi Interfaces with a neat block diagram.
-