139, GOVERNMENT POLYTECHNIC COLLEGE

UTHANGARAI

DEPARTMENT OF COMPUTER ENGINEERING

QUESTION BANK

4052520-CLOUD COMPUTING AND INTERNET OF THINGS

YEAR/SEMESTER: III/V

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LECTURER/COMPUTER ENGINEERING

UNIT 1

INTRODUCTION TO CLOUD COMPUTING

PART-A

1. **Define cloud computing.**
2. **List the components of cloud.**
3. **List the characteristics of cloud.**
4. **Define High Performance Computing.**
5. **Define rapid elasticity.**
6. **Define utility computing.**
7. **Define scalability in cloud computing.**
8. **List the benefits of cloud computing.**
9. **List the implementation of cloud computing.**
10. **List the types of web services.**

PART-B

1. **Explain in detail about cloud components.**
2. **Explain in detail about cloud computing architectural influences.**
3. **Explain about government policies of cloud computing.**
4. **Explain the essential characteristics of cloud computing.**

UNIT 2

CLOUD COMPUTING ARCHITECTURE AND SERVICES

PART-A

1. **Compare SaaS, PaaS and IaaS.**
2. **Compare cloud storage and cloud computation.**
3. **Compare SPI and Traditional IT model.**
4. **Define Folksonomy.**
5. **Define Web 2.0.**
6. **Define Web Operating System.**
7. **List the SaaS service providers.**
8. **List the PaaS service providers.**
9. **List the IaaS service providers.**
10. **List the recent developments in IaaS.**

PART-B

1. **With neat diagram explain cloud computing architecture.**
2. **Explain in detail about cloud deployment model.**
3. **Write short notes on Google App Engine, Salesforce.com**
4. **Write short notes on Amazon EC2, GoGrid**

UNIT 3
SECURITY IN THE CLOUD

PART-A

1. **Define cloud security.**
2. **List out the mechanism for securing data.**
3. **Define encryption in cloud security.**
4. **Mention some of the security challenges in cloud computing.**
5. **List the processes in virtualization security management.**
6. **Define tenancy.**
7. **List the advantages in multi tenancy.**
8. **Define broker and proxy.**
9. **Compare Symmetric and Asymmetric algorithm in cloud encryption.**
10. **List the policy types used in cloud security.**

PART-B

1. **With neat diagram, explain CSA cloud reference model.**
2. **With neat diagram explain brokered cloud storage access.**
3. **Explain tenancy in detail.**
4. **With neat block diagram, explain security policy implementation.**

UNIT 4
INTRODUCTION TO INTERNET OF THINGS

PART-A

1. **Define IoT.**
2. **List the components of an IoT system.**
3. **Mention the characteristics of IoT.**
4. **List the Applications of IoT.**
5. **Define Physical Design of IoT.**
6. **List the I/O interfaces used in an IoT system.**
7. **List the memory and storage interfaces used in an IoT system.**
8. **Define Data Distribution Service.**
9. **List the advantages of WebSocket-based communication APIs.**
10. **List the characteristics of Big Data.**

PART-B

1. **Explain in detail about Logical design of IoT.**
2. **Explain any three IoT enabling technologies.**
3. **Explain in detail about IoT protocols.**
4. **Explain in detail about various IoT Levels.**

UNIT 5

INTERNET OF THINGS PLATFORM: DESIGN AND DEVELOPMENT

PART-A

1. **Define Purpose and Requirements in IoT design methodology.**
2. **Define Process model specification in IoT design methodology.**
3. **Define IoT level specification in IoT design methodology.**
4. **Define Application development in IoT design methodology.**
5. **Define IoT device.**
6. **List the basic building blocks of an IoT device.**
7. **List the alternatives for Raspberry Pi.**
8. **Define Raspberry Pi.**
9. **List the flavors of Linux used in Raspberry Pi.**
10. **List the Interfaces used in Raspberry Pi.**

PART-B

1. **With neat diagram, explain IoT design methodology.**
2. **Explain about domain model specification.**
3. **Explain the basic building blocks of an IoT device.**
4. **Explain in detail about Raspberry Pi.**