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### END TERM EXAMINATION - MAY 2022 SEMESTER - VI

(B. Tech- DevOps- batches 2019)

Subject Code: CDV3022

Duration: 3 hours

Subject: Domain-Driven Approach to

Max. Marks: 100

Design & Implement Microservices

#### Instructions

· All Questions are compulsory

- The Question paper consists of 2 sections Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.
- There is no overall choice. Only Part B question include internal choice.

## PART - A (2 \* 10 = 20 Marks)

- 1. List out the benefits of Software Architecture.
- 2. What are the parts present in monolithic enterprise applications?
- 3. Draw the MS architecture.
- 4. Define building blocks.
- 5. Justify loose coupling in MS architecture.
- 6. What is Denial of Service?
- Mention the tokens generated in Rainyday Grocer Account login Microservice.
- 8. How the API communicate with each other through messages to handle client request.
- 9. Why API gateway?
- 10. List out the tools help to provide a defense of integrity.

# PART - B (16 \* 5 = 80 Marks)

11. a) Write short notes on Software architecture and its stakeholders, SOA components and its principles.

#### OR

- b) Explain in detail Microservices architecture components, principles and its strength.
- 12.a) How Domain Driven design applies to microservices.

#### OR

- b) Brief it Service communication and the API gateway.
- **13.a)** Write short notes on Injection, Broken Authentication, and XML external entities.

#### OR

- **b)** Explain briefly Rainyday Grocer ordering-delivery process, and microservices reference architecture.
- **14.** a) Write short notes on Cross site scripting, Insecure descrialization, and security misconfiguration.

#### OR

- **b)** Discuss the security triad. Explain symmetric key cryptography and asymmetric key cryptography with neat block diagram. Encrypt and decrypt the message "LIVE WHAT YOU LOVE", let key is 5 and use ceaser cipher method.
- **15.a)** Justify any 3 companies that implement the microservice architecture and paved the way for others.

#### OR

b) Discuss in details how does Microservice Architecture works.