

(2 1/2Hours)

[Total Marks: 75]

- N. B.: (1) All questions are compulsory.
 (2) Make suitable assumptions wherever necessary and state the assumptions made.
 (3) Answers to the same question must be written together.
 (4) Numbers to the right indicate marks.
 (5) Draw neat labelled diagrams wherever necessary.
 (6) Use of Non-programmable calculators is allowed.

Q1. Attempt any three of the following.

15 Marks

- Explain the term in detail
1)Gateway aggregation 2)Gateway routing in detail.
- Write down the principles of Microservice Monitoring?
- Define service fabric cluster in detail.
- Write down the principles of monitoring microservices.
- Write down the challenges occurred in microservices security.

Q2). Attempt any the three of the following.

15 Marks

- How to Implementing your API Gateways with Ocelot.
- What is Azure stack? and what is the purpose of Azure stack?
- Write down the benefits of monolithic architecture
- What is Kubernet? What kubernet provide with us?
- Define the term monolithic application authorization and authentication

Q3. Attempt any three of the following.

15 marks

- What are the different DevOps tools available in market. Explain one tool working.
- What are the different steps involve DevOps tracking process.
- What is Git?Write down the advantages of Git.
- Explain the term Azure devopsrepositoryin detail.
- What is control version system.Explain its types in detail

Q4. Attempt any three of the following.

15 marks

- Explain flow of a build on feature branch.
- Explain 3 defect removal techniques.
- Define static analysis tools. Give the examples.
- Write down the rules of thumb for release candidate packages.
- Write down the difference between UAT and Production Environment .

Q5. Attempt any three of the following.

15 marks

- Explain the term API Economy in detail.
- Write a short note on Authentication and authorization.
- State and explain someof the most common ways to strengthen API security.
- State and explain some of the most considerations for developing a good API?
- Explain the strategic business aspects of an API Implementation?