

Anjuman Islam Janjira Degree College of Science
Murud-Janjira, Raigad-402401
Affiliated to University of Mumbai

Class: -S.Y.B.Sc. C.S.	Subject: - Advanced Application Development
Semester:- IV	Course code: -USCS406
Exam Event:- Summer2024 (FH)	Marks: -75
Date: - 06/04/2024	Duration: - 02:30 Hours

- N.B. –**
- 1 – All questions are compulsory.**
 - 2 – All questions have internal choice.**
 - 3 – Figures to the right indicate full marks.**

Q1. Answer the following question. (Any 4 out of 6) 20

1. What is Node.js, and what steps are required for its installation?
2. Elaborate the Input/ Output cycle within Node.js.
3. How does find One and Delete() function in MongoDB for document deletion?
4. Discuss the creation and deletion processes within CRUD operations.
5. What is Schema, and why define Schema?
6. Explain the purpose and installation process of Mongo Compass.

Q2. Answer the following question. (Any 4 out of 6) 20

1. What is Express? Enumerate its advantages and disadvantages.
2. Discuss the process of creating templates in Express.js.
3. Elaborate the concept of Rest API.
4. Provide an overview of AngularJS.
5. Explain the process of configuring templates and discuss view hierarchy in Angular.
6. Discuss the concept of validating form data.

Q3. Answer the following question. (Any 4 out of 6) 20

1. Discuss Flutter, highlighting its cross-platform capabilities and strong community support.
2. Elaborate various frameworks within the Flutter ecosystem.
3. Define Dart Programming language and delve into Dart variables.
4. What is looping in Dart? And explain the for loop and for..in loop.
5. Provide insights into Dart functions.
6. Write about the Card widget and its functionality.

Q4. Answer the following question. (Any 5 out of 6) 15

1. Provide a basic routing example in a Node.js application.
2. Elaborate the package.json File.
3. Discuss the error handling and built-in middleware.
4. Enumerate the advantages of utilizing a template engine in Node.js and the benefits of using middleware.
5. Define parameterized function.
6. Explain the concept of State in the context of Flutter widgets.