

UKA TARSADIA UNIVERSITY

Integrated M.Sc. (IT) (Semester 9 / 3)

060010908(2019-20)

Cross - Platform Mobile Application Development

Date :08/05/2023

Time :9:30AM- 12:30PM

Max. Marks:60

Instructions :

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Draw diagrams/figures whenever necessary.
5. Figures to the right indicate full marks allocated to that question.
6. Follow usual meaning of notations/abbreviations.

SECTION - 1

Q 1 Answer the following in detail. (Any 2)

[10]

- I) Write a note on limitation of universal application development.
- II) Explain each options of creating an ionic project. Enlist any four advantages and disadvantages of ionic framework.
- III) Discuss a steps to install ionic. Enlist software dependencies are required to run an ionic application?

Q 2 Answer the following.

[10]

- A) Write a snippet code for passing data to modal popup. Explain it in detail.

OR

- A) Create a modal popup which will take username and password as an input. If both the user credential is an "admin" then close the popup and display welcome message as "Welcome <<username>>" else on the failure of the credential close the popup and display message as "Sorry!! You are an unauthorized user".
- B) Demonstrate the necessary steps used to create Reactive form in ionic application.

OR

- B) Create a "To-do list" application in ionic to manage tasks. On Home Page, display all today's tasks in list. Add fab button on bottom of the screen to add new task.

[Note: Use an array to store all tasks]

Q 3 Answer the following in detail. (Any 2)

[10]

- I) Explain key difference between Angular and TypeScript. How to create a project in it? List any four benefits of using both.
- II) illustrate any five user input components with an example.
- III) What is action sheet controller? Write a snippet code to delete an employee from list using action sheet controller.

[Note: Use array list to store basic detail of an employee.]

SECTION - 2

Q 4 Answer the following in detail. (Any 2)

[10]

- I) Create ionic application to perform customer login functionality where username is "customer@gmail.com" and password is "cust@2023". If username and password is valid then redirect customer to dashboard otherwise display appropriate error message.
- II) Describe state management in ionic with an example.
- III) Explain capacitor.

Q 5 Answer the following in detail. (Any 2)

[10]

- I) What is RESTful web service? Write and explain code to store and retrieve data from web service.
- II) Write a detail note on application configuration steps for creating iOS application.
- III) Explain any five options of ionic capacitor for the deployment commands in detail.

Q 6 Answer the following in detail. (Any 2)

[10]

- I) Write a note on custom splash screen in detail.
- II) Discuss steps to create multiple pages using ionic generator and give purpose of each file created by generator.
- III) Define custom application icon. Explain configuration steps to setup custom application icon in Android and iOS.