

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – WINTER • 2013

Subject code: 725304

Date: 21-12-2013

Subject Name: Advanced Programming on Mobile Devices - I

Time: 10.30 am – 01.00 pm

Total Marks: 70

Instructions:

1. Attempt question 1, which is compulsory and answer any four from the rest questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right hand indicate the marks.

Q. No. 1

- a. Explain View Controller life cycle. [7 Marks]
- b. Explain basic memory management in objective C. What happens if you release the object and try to use it? Justify your answer. [7 Marks]

Q. No. 2

- a. Make a list of different view controller based application and explain their usage. [7 Marks]
- b. Write code for “settings” UI page which contain Panel, rows and toggle class. [7 Marks]

Q. No. 3

- a. Describe the process of making your web pages iPhone friendly and the process of making your web pages iPhone optimized. [7 Marks]
- b. Explain Copy vs Assign vs Retain. [7 Marks]

Q. No. 4

- a. Difference between CoreData and Database. [7 Marks]
- b. Explain in detail the process of capturing iPhone events. [7 Marks]

Q. No. 5

- a. Explain MKMapView Delegate methods. [7 Marks]
- b. Identify basic OO concepts and the keywords Objective-C uses (interface, implementation, property and synthesis). Explain each. [7 Marks]

Q. No. 6

- a. What is a window? How does it work with views? Explain with suitable code. [7 Marks]
- b. Which properties are used to add shadow on canvas elements? Explain with an example. [7 Marks]

Q. No. 7

- a. Explain App states in iPhone. With suitable example. [7 Marks]
- b. What do you mean by WebKit, iUI & Canvas? Explain in detail. [7 Marks]

Q. No. 8

- a. Provide a detail list of steps for using SQLite in your program. [7 Marks]
- b. Implement your own synthesized methods for the property NSString *title. [7 Marks]
