DF-1664
M. Sc. (I.C.T.) (Sem. III) Examination
March/April – 2016
Smart Device Computing using IOS
(New Course)

Time : 3 Hours] [Total Marks : 70

Instructions :

(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
M. SC. (I.C.T.) (SEM. III)
Name of the Subject :
SMART DEVICE COMPUTING USING IOS (NEW)

Subject Code No. : 1 6 6 4 [Section No. (1, 2, ....): Nil

(2) Draw the figure and give example whenever necessary.

Q.1 Answer the following questions in short.
1. List out features of smart device OS.
2. Explain the importance of Foundation framework.
3. What are Bonjour and DNS services?
4. What is OpenAL?
5. Explain the use of self keyword.
6. What are IBOutlet and IBAction?
7. Does iOS support multitasking?
8. Which object manage the representation of app’s content on the screen?
9. What is class extension? Why do we require them?

Q.2 Answer the following questions. (Any Three)
1. What is pickerView? Write steps to implement pickerView with two components.
2. Explain Category and Extensions with example.
3. Write a program that calculates the sum of the digits of an integer. For example, the sum of the even digits of the number 2344 is $2 + 4 + 4 = 10$. The program should accept any arbitrary integer the user types.
4. Define runtime polymorphism? Write program to implement it with real world example.

Q.3 Answer the following questions. (Any Three)
1. Explain features of SQLite database. Write steps to insert and update record into student table with appropriate field.
2. Differentiate static and dynamic table. Write steps to implement static table.
3. Write steps to show navigation between scenes using segue.
4. Explain different types of gestures recognizers.

[ Contd... ]
Q.4 Answer the following questions (Any Two)
1. Explain property declaration and implementation. Also explain various property declarations attributes.
2. What is ViewController? Write steps to implement custom view. Also explain image animation.
3. Write an Objective-C class which represents a circle, with member variables to store the radius and the value of pi (use 3.1419).
   1) Add methods to get the value of the radius, set the value of the radius and calculate the circumference of the circle.
   2) Write code to test this class.
   3) Write a category that adds the functionality to calculate the area of the circle.