



**HAF-003-039603**

Seat No. \_\_\_\_\_

**B. Voc. (ACTECH.) (Sem. VI) (CBCS) Examination**

**June / July – 2017**

**ACTECH 6.3 : Mobile Computing in iOS**

**Faculty Code : 003**

**Subject Code : 039603**

Time :  $2\frac{1}{2}$  Hours ]

[ Total Marks : 70

**1 Answer the following questions : 20**

- (1) What is Objective-C ?
- (2) What is Xcode ?
- (3) What is Interface Builder?
- (4) What is .h file in ios?
- (5) What is .m file in ios?
- (6) Explain how string is represented in Objective-C?
- (7) What is use of @interface in Objective-C?
- (8) Explain how the class "IMPLEMENTATION" is represented in Objective-C?
- (9) What stands for IBOutlet ?
- (10) What is @property ?
- (11) What is @synthesize ?
- (12) What stands for IBAction ?
- (13) Explain NSLog method and use of it.
- (14) What will be the output of given code ?  

```
NSString *car = @"Maserati GranTurismo";  
NSLog(@"%o@", [car substringToIndex:8]);
```
- (15) What is .plist file and explain about it is usage?
- (16) How to Accessing Properties in iOS ?
- (17) What are the location services?
- (18) What is local notification?
- (19) What is Bundle ID?
- (20) What is Swift ?

- 2 (a) Attempt the following : (any **three**) **6**
- (1) What is the difference between viewDidLoad and viewWillAppear?
  - (2) Explain ViewController and use of it.
  - (3) What is Automatic Reference Counting (ARC) ?
  - (4) What are the different ways to specify layout of elements in UIView?
  - (5) What is Cocoa Framework?
  - (6) Creating Sets using NSSet class and initialize object with setWithObjects Example.
- (b) Attempt the following : (any **three**) **9**
- (1) Objective-C's primitive data types. OR List out all primitive datatypes and it's format specifier.
  - (2) Difference between Category and Class Extension.
  - (3) What is difference between Simulator and Emulator ?
  - (4) Explain gesture recognizers and it's types.
  - (5) What is push notification? How it works ?
  - (6) Explain NSMutableString with it's method with example.
- (c) Attempt the following : (any **two**) **10**
- (1) Define iPhone Architecture?
  - (2) What is MVC? Explain it with appropriate example.
  - (3) List and explain the different types of iOS Application States.
  - (4) List out UI Elements in iOS and explain any three of them.
  - (5) Write a program using UILabel, UIButton and UITextField on Button Click Label Text will Change with textfield value which you have been entered.

- 3** (a) Attempt the following : (any **three**) **6**
- (1) Explain what objective-C program basically consists of.
  - (2) What is AutoLayout ? Explain it.
  - (3) Explain atomic in property.
  - (4) Explain NSArray with it's different methods.
  - (5) Explain strong in property.
  - (6) What is UIAlertView ? Give example of it.
- (b) Attempt the following : (any **three**) **9**
- (1) Explain NSArray with it's different methods.
  - (2) How can you store data in iPhone applications?
  - (3) What is the Responder Chain?
  - (4) What is Location Handling ? Explain LocationManager.
  - (5) Explain icloud Data persistence in ios.
  - (6) What are the features added in iOS 9?
- (c) Attempt the following : (any **two**) **10**
- (1) What is UI ? How to make it's awesome ?  
List different wireframe tools(online/offline).
  - (2) Give us example of what are Delegate methods and what are Data Source methods of UITableView.
  - (3) Explain SQLite Databases in iOS with Creating a Database example.
  - (4) Explain the steps involved in submitting the App to App-Store.
  - (5) What is the difference between device Token and Device UDID?
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