Candidate Seat No.....

# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

# Fifth Semester of B. Tech (CE) Examination December 2018

**CE373 Mobile Application Development (Elective-I)** 

Date: 29.11.2018, Thursday Time: 10.00 a.m. To 1.00 p.m. Maximum Marks: 70

#### Instructions:

- 1. The question paper comprises two sections.
- 2. Section I and II must be attempted in separate answer sheets.
- 3. Make suitable assumptions and draw neat figures wherever required.

## SECTION - I

		SECTION - I		
Q - 1	Answ	ver the following questions.		
A	State the benefits of Swift over Objective-C?			
В	Relate the difference between the frame, bound and center for defining the geometry of UIView class.			
C	How to pass data between view controllers while developing iOS mobile			
D	application? Which of the following frameworks is/are used in iOS?  [0]			
	I.	UIKit Framework II. AppKit Framework		
	III.	Foundation Framework IV. CoreMotion Framework		
${f E}$	Expla	ain the Responder Chain with example.	[02]	
		OR		
E	Distinguish between using a delegate and notification?			
Q-2	Answ	ver the following questions.		
A	Explain iPhone operating system architecture with example. Enlist the main features of iOS 9 or above.			
		OR		
A	Why Alamo fire is used in iOS application development? Give main features of Alamo fire.		[05]	
В	Explain the life cycle of an iOS application and view controller life cycle.			
C	Expla	ain the following syntax	[02]	
	i.	UIButton* b = [UIButton buttonWithType:UIButtonTypeSystem]; UIView* v = b		
	ii.	<ul><li>@interface XYZObject : NSObject</li><li>@property (copy) void (^blockProperty)(void);</li><li>@end</li></ul>		

## Q-3 Answer the following questions.

A Explain UIDynamicAnimator & UINavigationController in detail.

[04]

В	Candidate Seat No How to achieve memory management in iOS? Explain with example in detail. [6]		
C	Write an iOS code to create an actionsheet in swift and generate the alert box af		
	selecting the action from the actionsheet.	[06]	
	OR		
C	Write an iOS code to develop an application for counting the button click and display	[06]	
	the message on screen of number of count. Moreover add the function of button click		
	if reaches the count of 20 then button should get disable.		
	SECTION – II		
Q - 4	Answer the following questions.		
A	List out the difference between JVM and DVM?		
В	What is AVD? Explain the process of creating AVD in Android application	[02]	
	development.	[01]	
C	What is widget in android application?		
D	What does the following line of code achieve?	[01]	
E	Intent intent = new Intent(FirstActivity.this, SecondActivity.class );  I. Creates an hidden Intent II. Creates an implicit Intent III. Create an explicit Intent IV. Starts an activity List out the pros and cons of using cross platform mobile application development?	[02]	
_	OR	[ ~ _ ]	
${f E}$	What is the significance of android manifest file?	[02]	
Ľ	what is the significance of android mannest me.	[02]	
Q - 5	Answer the following questions.		
A	What is Service? Explain each state of service and differentiate between Activity and Service.	[05]	
	OR		
A	Explain web, native and hybrid mobile application development along with its	[05]	
В	advantages and disadvantages.  What is android activity lifecycle? Explain the role of each method in detail.	[07]	
C	What is intent? Explain explicit vs. implicit intents.	[02]	
Q - 6	Answer the following questions.	[02]	
A	Write a code to send data from one activity to another activity using implicit intent.	[04]	
В	List down the advantages and disadvantages of SQLite Database.		
C	Write a code for android application to insert EmployeeDetails (eID, eName,	[04] [06]	
C	eJoiningDate, eSalary) in SQLite database using Android App.  OR	լսսյ	
C	What is ScrollView and ListView? Explain anyone with suitable example.	[06]	