

**VIT****Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)**SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING****B.Tech-(IT/CE/CB/EC/EE)****CAT I - Fall Semester - 2018-19****ITE1016 Mobile Application Development****Slot: G2+TG2****Max. Marks: 50****Part A (4 x 5 = 20 Marks)**

1. Compare and contrast the benefits of application contexts to help you determine what is best for your application.
2. Distinguish between the web app and the native app with suitable examples.
3. Create a simple application using JavaScript to find the occurrences of the word given in the input statement. I/p: Fuzzy Wuzzy was a bear. Fuzzy Wuzzy had no hair. Fuzzy Wuzzy wasn't fuzzy, was he? o/p: Fuzzy-4;
4. Write a JavaScript function that returns a passed string with letters in alphabetical order. Assume punctuation and numbers symbols are not included in the passed string.i/p: 'webmaster'; o/p: 'abeemrstw'

**Part B (3 x 10 = 30 Marks)**

5. Build the elements of user experience and show how each of the layers of the user experience come together to create both hypertext experiences and more software like application experience.
6. Design a HTML form as given below using different form elements and perform the JavaScript validation on the following fields: fig(a)
  - i) Phone number should contain ten digits only.
  - ii) Name should not be null and contain alphabets only.
  - iii) Password should be in the range of 6-8 characters.

An alert box must be generated when the send button is pressed with the possible error messages.

**Test JavaScript Form Validation**

Name\*  
Address\*  
Zip Code\*  
Country\*  
Gender\*  
Preferences\*  
Phone\*  
Email\*  
password (6-8 characters)\*  
Verify password\*  
SEND CLEAR

**Fig(a)**

12:15 PM  
Simple Forms  
Lists & tabs  
Asynchronous list  
Form  
Media  
Dynamic Layer  
mailto:

**Fig(b)**

7. a. Write down the detailed procedure of how to make an app in IOS using Xcode and Swift. (5 Marks)
- b. For the given output Fig(b), Create an iPhone page design by adding appropriate CSS and also instruct the browser to generate a gradient image on the fly to the background? (5 Marks)