

Seat No.	
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**B.E. (Computer Science and Engineering) (Semester-VII)****Examination, November - 2017****MOBILE APPLICATIONS (El. - 1)****Sub. Code : 67546****Day and Date : Tuesday, 21 - 11 - 2017****Total Marks : 100****Time : 2.30 p.m to 5.30 p.m.**

- Instructions :**
- 1) Figures to the right indicates full marks.
  - 2) Question no 4 and 8 are compulsory
  - 3) Attempt any two questions from remaining questions in each section

**SECTION - I**

- Q1) a)** What are mobile website navigation techniques [6]
- b) What is native app, hybrid app and web app in mobile app technology stack. [6]
- c) Explain about standard OMA. [4]
- Q2) a)** Write a note on HTML 5. [6]
- b) Explain in detail about WAP 1.0 [6]
- c) Write short note on Web Services [4]
- Q3) a)** Explain the difference between XML and JSON [6]
- b) What are the best practices while designing a mobile website? [6]
- c) Explain in detail about Fallback mechanism. [4]

**P.T.O.**

**Q4)** Write short note on (Any Three)

- a) Android emulator
- b) W3C
- c) RESS
- d) Tools for Mobile Web Development

**SECTION - II**

**Q5) a)** Explain the role of responsive images in mobile application development  
How we can use Sencha. IO to create responsive images [6]

b) Explain various problems mobile application developer face regarding feature support on a particular platform. Briefly describe their solutions. [6]

c) Describe how we can use HTTP header for device detection at server side [4]

**Q6) a)** Explain in detail JavaScript APIs for handling touch and gesture events in mobile application [6]

b) Compare Zepto.js with jQmobi. [6]

c) What is J2ME? How are the tools available for J2ME programming? [4]

**Q7) a)** Describe how W3C Geolocation API is used for getting a location as well as tracking a particular location. [6]

b) Compare Native App And Mobile Web App. [6]

c) List various JavaScript mobile UI patterns. Explain ANY one. [4]

Q8) Write a short note on (any three)

- a) Web Sockets.
- b) Device Interaction.
- c) GSMA One API.
- d) HTTP Sniffing.

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