[4959] - 1170

B.E. (Computer Engineering) (Semester - II)
MOBILE APPLICATIONS
(2012 Pattern)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Explain following mobile platform in detail.   **[6]**

   i)   Android.

   ii) iOS.

   b) Describe in detail XML and JSON.   **[4]**

<div align="center">OR</div>

Q2) a) Explain the benefits of using mobile applications.   **[4]**

   b) What is WML? Explain WML Commands used in FORM.   **[6]**

Q3) a) Explain Fragmentation display with respect to the following parameters
                                                                         [6]

   i)   Resolution.

   ii) Aspect Ratio.

   iii) Device pixel ratio.

   b) Differentiate between Emulators and Simulators. Any four points.   **[4]**

<div align="center">OR</div>

<div align="right">*P.T.O.*</div>

Q4) a) What strategy you will apply while designing and developing a Mobile App? **[6]**

b) Explain WCSS marquees extension with the help of attributes. **[4]**

Q5) a) Which are the predefined shapes supported by Scalar Vector Graphics (SVG)? **[6]**

b) Write a short note on: **[6]**

  i) User agent spoofing.

  ii) HTTP Sniffing.

c) Write a short note on Wireless Universal Resource File (WURFL). **[4]**

OR

Q6) a) Explain in detail the Architecture of Web App development with suitable diagram. **[6]**

b) Explain in detail problems and solutions associated with Mobile Device Detection. **[6]**

c) Differentiate between SVG and Canvas. **[4]**

Q7) a) Write a short note on J2ME and tools for J2ME programming. **[6]**

b) Which JAVA SCRIPT Framework is used in Mobile Application Development? Explain any one. **[6]**

c) What is DOM? Explain with suitable examples. **[4]**

OR

Q8) a) Explain the following Java Script Debugging types **[6]**

  i) Server Side Debugging.

  ii) Client Side Debugging.

b) Explain any two Java Script Libraries. **[6]**

c) List out Java Script UI Patterns. **[4]**

Q9) a) Explain Web Sockets in detail. Write the code for Web Socket constructor Web Socket connection. **[9]**

b) Write a short note on: **[9]**

   i)   Global Positioning System (GPS).

   ii) Assisted Global Positioning System (AGPS).

   iii) WiFi Positioning System.

OR

Q10) a) Explain the following: **[9]**

   i)   AJAX.

   ii) Server Sent Events.

   iii) Web Sockets.

b) Write a short note on: **[9]**

   i)   W3C Geolocation API.

   ii) GSMA one API.

   iii) Web Storage.

❄ ❄ ❄