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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Seventh Semester, B.E. - Information Science and Engineering
Semester End Examination; Jan. / Feb. - 2021
Mobile Application Development

*Time: 3 hrs**Max. Marks: 100**Note: Answer FIVE full questions, selecting ONE full question from each unit.***UNIT - I**

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|------|---|----|
| 1 a. | List the various mobile myths. | 5 |
| b. | Explain the Fiddler debugging web service tool. | 5 |
| c. | List and explain the various benefits of a mobile application. | 10 |
| 2 a. | List the various third-party frameworks available for mobile application development. | 5 |
| b. | Highlight the advantages of web services. | 5 |
| c. | With an example for each, explain the following web service data formats: | 10 |
| | i) XML ii) XSLT iii) JSON | |

UNIT - II

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| 3 a. | Explain the concept of intervening screen in detail. | 10 |
| b. | Summarize the pros and cons of various mobile web development options. | 10 |
| 4 a. | List and explain the various Gestalt principles in designing the mobile application. | 10 |
| b. | How the following concepts are implemented using HTML5? Give examples for each; | 10 |
| | i) Offline storage ii) Geolocation | |

UNIT - III

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| 5 a. | Discuss the various steps involved in configuring the Eclipse ADT plug in. | 10 |
| b. | List and explain the components of the iPhone SDK. | 10 |
| 6 a. | With the help of code snippet, explain the various layouts available in Android. | 10 |
| b. | With example, explain the following with respect to Objective-C; | 10 |
| | i) Methods ii) Control structure | |

UNIT - IV

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| 7 a. | Explain the various steps involved in getting a signing certificate (Map API key). | 10 |
| b. | Briefly explain the relevant files present within the Notepad application (Any five files). | 10 |
| 8 a. | Explain the various steps involved in uploading the Android application. | 10 |
| b. | With the help of a code snippet, explain how a record is inserted into the SQLite database? | 10 |

UNIT - V

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| 9 a. | With the help of a code snippet, explain how to connect to a location provider and get location updates? | 10 |
| b. | With a neat diagram, explain the Model-View-Controller concept. | 10 |
| 10 a. | With a help of a code snippet, explain how pausing and resuming a Map activity is performed? | 10 |
| b. | With the help of a code snippet, explain how tracking motion is handled in an Android application? | 10 |

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