

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
SECOND SEMESTER (Second Year Direct) &  
FOURTH SEMESTER (Regular) MCA DEGREE EXAMINATION, APRIL 2018

**Course Code: RLMCA206**

**Course Name: MOBILE COMPUTING**

Max. Marks: 60

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- |   |  |     |
|---|--|-----|
| 1 | List the three main components of a typical WLAN.                                | (3) |
| 2 | Why it is said that mobile computing subsumes wireless networking?               | (3) |
| 3 | Compare any three important features of 3G and 4G.                               | (3) |
| 4 | List any three user interactive features supported by iOS.                       | (3) |
| 5 | What are the important features of Windows mobile OS?                            | (3) |
| 6 | What are the issues that arise when considering mobile devices as web clients?   | (3) |
| 7 | Explain the importance of ADT and AVD while developing an application in Android | (3) |
| 8 | What are Services in Android? Explain its importance in Android.                 | (3) |

**PART B**

*Answer six questions, one full question from each module and carries 6 marks.*

**Module I**

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|---|--|-----|
| 9 | Explain the architecture of Mobile Telecommunication System with figure. | (6) |
|---|--|-----|

**OR**

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|----|---|-----|
| 10 | Explain the various functions of components of a Wireless Communication System. | (6) |
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**Module II**

- |    |   |     |
|----|---|-----|
| 11 | Explain the characteristics of mobile computing applications. | (6) |
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**OR**

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| 12 | Explain GPRS architecture with figure and also its services. | (6) |
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**Module III**

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|----|---|-----|
| 13 | Explain the structure of traditional OS and its two types of design with figures. | (6) |
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**OR**

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|----|---|-----|
| 14 | Explain the responsibilities and services to be carried out by a mobile OS. | (6) |
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**Module 1V**

- 15 Explain Android Software Components and Stack Structure in Android Software development Kit. (6)

**OR**

- 16 Explain Wireless Access protocol and Protocol Stack with diagrams. (6)

**Module V**

- 17 Explain Dalvik Virtual Machine with diagrams. Differentiate it with Java Virtual Machine (6)

**OR**

- 18 Explain Eclipse and DDMS in Android Development Environment (6)

**Module VI**

- 19 Explain Android User Interfaces with Views using Examples (6)

**OR**

- 20 Explain ViewGroups and Layouts In Android with examples (6)

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