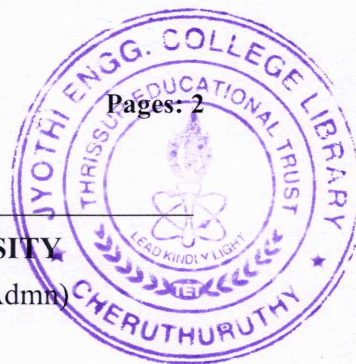


Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech S4 (Hons.) Degree Examination May 2025 (2023 Admn)



Course Code: CCT292

Course Name: SECURE MOBILE APPLICATION DEVELOPMENT

Max. Marks: 100

Duration: 3 Hours

PART A*(Answer all questions; each question carries 3 marks)*

Marks

- | | | |
|----|---|---|
| 1 | How many constraints are there in a mobile system? What are they? | 3 |
| 2 | What is Dalvik? What is the difference between Dalvik and JVM? | 3 |
| 3 | What is Drawable class used for? | 3 |
| 4 | Demonstrate the functionality of Button Selector. | 3 |
| 5 | What is the difference between pre-emptive and non-pre-emptive scheduling algorithms? | 3 |
| 6 | List out any five criteria of scheduling. | 3 |
| 7 | What is Schema in database? | 3 |
| 8 | What are the functions used to query the space? | 3 |
| 9 | What is the difference between mobile cloud computing and cloud computing? | 3 |
| 10 | Compare different type of Wireless Network. | 3 |

PART B*(Answer one full question from each module, each question carries 14 marks)***Module -1**

- | | | |
|----|--|----|
| 11 | a) With the help of diagram explain system architecture of Android. | 7 |
| | b) List out the challenges of mobile cloud computing. | 7 |
| 12 | a) What is an activity in an Android? How to launch an activity in Android? | 4 |
| | b) Explain the need of data security and privacy protection in mobile systems. | 10 |

Module -2

- | | | |
|----|--|---|
| 13 | a) Explain the life cycle of a Media player with a state diagram. | 9 |
| | b) List the functions of Action bar design element of an Android. | 5 |
| 14 | a) How is colour represented in Android. | 5 |
| | b) Demonstrate the procedure of execution of video in Android with the help of code. | 9 |

Module -3

- | | | |
|----|--|---|
| 15 | a) With the help of diagram explain Linux kernel of Android. | 7 |
|----|--|---|

- | | | |
|----|---|---|
| | b) Explain communication mechanisms used in Android. | 7 |
| 16 | a) With the help of an example Explain ASAP scheduling algorithm. | 9 |
| | b) What is priority scheduling algorithm? | 5 |

Module -4

- | | | |
|----|--|---|
| 17 | a) Interpret the use of Content Providers in Android Apps. | 7 |
| | b) What is the difference between storing data in internal storage and external storage? | 7 |
| 18 | a) Illustrate the CRUD operations possible in SQLite. | 9 |
| | b) Describe the mechanisms used in Android to delete a file. | 5 |

Module -5

- | | | |
|----|---|----|
| 19 | a) Illustrate the process of virtual machine implementations in a mobile cloud. | 10 |
| | b) Describe cellular network. | 4 |
| 20 | a) With the help of diagram explain architecture of mobile cloud computing. | 10 |
| | b) Difference between WiMAX and Wi-Fi | 4 |
