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**Question Paper Code: U8G61**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

ONE CREDIT

Biomedical Engineering

21UAM861 INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT

(Regulation 2021)

Duration: 1.30 hour

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which section provides a key component called Dalvik Virtual Machine? CO1-U  
(a) Libraries      (b) Android Runtime      (c) Application Framework      (d) Applications
2. Which of the following is the first callback method that is invoked by the system CO1-U  
during an activity life-cycle?  
(a) onClick() method      (b) onCreate() method  
(c) onStart() method      (d) onRestart() method
3. Which tool is used to build an APK? CO1-U  
(a) Android Studio      (b) Eclipse      (c) IntelliJ IDEA      (d) Gradle
4. Which view is used to trigger actions when pressed by the user? CO1-U  
(a) Text view      (b) Image view      (c) Button view      (d) List view
5. Which of the following is NOT a common theme in user interface design? CO1-U  
(a) Light theme      (b) Dark theme      (c) Rainbow theme      (d) High contrast theme
6. What is a broadcast receiver in user interface design? CO1-U  
(a) A component that handles system-wide announcements  
(b) A type of graphical user interface element  
(c) A tool for designing animations  
(d) A programming language feature

7. What does CRUD stand for in the context of database operations? CO1-U  
 (a) Create, Read, Update, Deploy (b) Create, Relate, Use, Delete  
 (c) Create, Read, Update, Delete (d) Connect, Retrieve, Update, Delete
8. Which of the following services is NOT provided by Firebase Hosting? CO1-U  
 (a) SSL/TLS certificates (b) Custom domain hosting (c) File storage (d) Global CDN
9. What type of data is commonly stored in Firebase Realtime Database for Android applications? CO1-U  
 (a) Only text data (b) Only binary data  
 (c) Structured data such as JSON objects (d) Only image data
10. What file extension is commonly used for SQLite databases? CO1-U  
 (a) .db (b) .sql (c) .data (d) .txt

PART – B (2 x 20= 40 Marks)

11. (a) Write a XML and Java code for the following scenario: CO2-App (16)  
 To create a layout that includes a text box and a button. When the button is tapped it will display the Toast message with the sting entered by user in Textbox.
- Or
- (b) Develop an app to store and retrieve the employee details(Employee id, name, and address) using SQLite database. CO2-App (16)
12. (a) Create a BMI calculator app for android that: CO2-App (16)
- Captures weight and height with Edit Text widgets.
  - Contains a class that uses the Single ton Pattern and contains the calculation logic for BMI
  - Uses a Toggle Button to support calculation of BMI with both the metric and imperial measurement systems
  - Displays the calculated BMI and categorization of the BMI inside a Card View widget
- Or
- (b) Develop an android application to view the website [“https://sethu.ac.in/”](https://sethu.ac.in/) using your Browser. CO2-App (16)