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Question Paper Code: R8G61

B.E. / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

One Credit Course

CSE (Artificial Intelligence and Machine Learning)

R21UAM861 – INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT

(Regulations R2021)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which of the following libraries provides access to the application model and is the cornerstone of all Android applications? CO1- U
(a) android.app (b) android.content (c) android.database (d) android.widget
2. Which of the following is the first callback method that is invoked by the system during an activity life-cycle? CO1- U
(a) onClick() method (b) onCreate() method
(c) onStart() method (d) onRestart() method
3. What does APK stand for? CO1- U
(a) Android Package Kernel (b) Android Package Kit
(c) Android Package Key (d) Android Package Manifest
4. Which of the following is NOT a type of menu commonly used in user interfaces? CO1- U
a) Context menu b) Dropdown menu
c) Pop-up menu d) Linear menu
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 (a) Lack of GPU memory

6. Which attribute in the Android manifest file is used to declare a broadcast receiver? CO1- U
- (a) <intent-filter> (b) <receiver>
(c) <activity> (d) <service>
7. What file extension is commonly used for SQLite databases? CO1- U
- (a) .db (b) .sql
(c) .data (d) .txt
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. Which method is used to read data from Firebase Real time Database? CO1- U
- (a) read() (b) get()
(c) fetch() (d) retrieve()
10. 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

PART – B (20 x 2= 40 Marks)

11. (a) Write a Xml and Java code for the following scenario: 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. CO2- App (20)

Or

- (b) Create a login page that contains the following components: CO2- App (20)
- The app logo
 - Username and password text fields
 - Login button
 - Reset password link
 - Remember me option
 - Forgot password field

12. (a) When the user touches the button in the toolbar fragment, the fragment class is going to get the text from the EditText view and the current value of the Seek Bar and send them to the text fragment. Fragments should not communicate with each other directly, instead using the activity in which they are embedded as an intermediary. CO2- App (20)

Or

- (b) Create your own content provider to add student's record in a database and to ask Content Provider to give us those records back. CO2- App (20)

