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**DMI-ST. EUGENE UNIVERSITY****ZAMBIA****DEGREE EXAMINATION – JUNE 2024****Semester: IX 055EE125 MOBILE APPLICATION DEVELOPMENT USING ANDROID****Time: 3:00 Hours****Max. Marks: 100****Answer any FIVE Questions (5 x 20 = 100 Marks)**

1. a) Explain Basic Concept of mobile Communication. State the meaning of Cell and Cluster. (4 Marks)
- b) Draw GSM Architecture. List the function of BSC (Base Station Controller). (8 Marks)
- c) Explain 3-tier architecture of mobile computing. (8 Marks)
2. a) Define android and emulator. (2 Marks)
- b) Write steps to create new android project. (4 Marks)
- c) Draw and explain Android OS framework. (8 Marks)
- d) What is AVD? List the steps to create AVD. (6 Marks)
3. a) Define activity and intent. (4 Marks)
- b) Explain hardware imposed design consideration. (4 Marks)
- c) Draw and explain activity life cycle of android. (8 Marks)
- d) What is Implicit and Explicit Intent explain with example? (4 Marks)
4. a) Explain the concept of Event Driven programming in Android. (4 Marks)
- b) Write a short note on event listener and event handler. (8 Marks)
- c) Write an Activity Lifecycle of Android with program code. (8 Marks)
5. a) Explain different features of SQLite database. (6 Marks)
- b) Explain Toast with example. (4 Marks)
- c) List and explain the priorities of different android applications. (8 Marks)
- d) Explain Array Adapter. (2 Marks)
6. a) What is noise? Explain different types of noise. (8 Marks)
- b) Differentiate different generations of Wireless Technology. (4 Marks)
- c) What is middleware? List all types of middleware's for mobile computing. (8 Marks)

7. a) Write the difference between option menu and context menu. **(8 Marks)**
- b) Create an Android application to demonstrate Dialog Box. **(8 Marks)**
- c) Explain Custom Menu in detail. **(4 Marks)**