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UNIVERSITY EXAMINATIONS 2023/2024

SECOND YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
INFORMATION TECHNOLOGY

CIT 2411: MOBILE APPLICATION DEVELOPMENT

DATE: DECEMBER 2024

TIME: 1½ HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

1. Provide a definition for each of the following terms:
 - i. Manifest (2 Marks)
 - ii. Resources (2 Marks)
 - iii. Broadcast receiver (2 Marks)
 - iv. Content provider (2 Marks)
2. What do you understand by the term android in mobile application development? (2 Marks)
3. List any four view groups that are supported by android. (4 Marks)
4. What is the use of the string.xml file? (2 Marks)
5. What are the four android application components? Enumerate them. (4 Marks)
6. What do you understand by the following terms?



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

- i. Intents (2 Marks)
 - ii. Views (2 Marks)
 - iii. ADV (2 Marks)
7. List and briefly explain any two features of android that you know. (4 Marks)

QUESTION TWO (15 MARKS)

- 1. During mobile application development, the R file is generated automatically in android, what should you not do to this file as a developer? (2 Marks)
- 2. List any two important steps that make a Broadcast Receiver work for the broadcasted internet receivers? (2 Marks)
- 3. The following terms are very common in mobile app development. Briefly provide each their meaning:
 - i. Intents (2 Marks)
 - ii. Resources (2 Marks)
 - iii. Manifest (2 Marks)
- 4. Using a well labeled diagram, briefly explain the activity life cycle. (5 Marks)

QUESTION THREE (15 MARKS)

- 1. Briefly describe the following terms:
 - i. Version Control System (2 Marks)
 - ii. Fragment (2 Marks)
 - iii. Activity (2 Marks)
 - iv. Service (2 Marks)
- 2. What do you understand by the term fragment in mobile computing? (2 Marks)
- 3. List any two examples of mobile operating systems (2 Marks)
- 4. Explain the following parts of a content Uri: (3 Marks)



- a. id (2 Marks)
- b. data_type (2 Marks)

QUESTION FOUR (15 MARKS)

1. Describe the android stack architecture using a diagram (5 Marks)
2. Write a java program to display prime numbers between 0 and 99 (5 Marks)
3. Write xml code to create a textfield (name) and a button (register) respectively (5 Marks)

