

Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2017
CA5EL27 Mobile Application Development
Programme: MCA Branch/Specialisation: Computer Application

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. What was the OHA's reason for replacing the Java VM with the Dalvik VM? **1**
(a) Java VM was not free (b) Low Memory
(c) Complicated to configure (d) Running slow
- ii. .apk extension stands for? **1**
(a) Application Program Kit (b) Android Proprietary Kit
(c) Android Package (d) Application Package
- iii. Which of the below are used to creating a UI (User Interface) in Android? **1**
(a) Microsoft and Java (b) XML and Java
(c) XML and C++ (d) PHP and Java
- iv. Which component is not activated by an Intent? **1**
(a) Activity (b) ContentProvider
(c) Services (d) CALL_MAP
- v. What is splash screen in android? **1**
(a) Initial screen of an application
(b) Initial activity of an application
(c) Initial service of an application
(d) Initial method of an application.
- vi. Select the below program statement to launching a new Activity by Class name. **1**
(a) Activity.start(Activity2.this);
(b) startActivity(main.xml);
(c) Activity2.start(Activity2.java);
(d) startActivity(Activity2.class);

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- vii. android:padding attributes with Button widget used for? **1**
(a) Pads some spaces in all sides of Button widget.
(b) Leave the spaces to all sides within widget.
(c) Sets the padding, in pixels, of all four edges.
(d) Sets the padding, in inches, of both sides.
- viii. Which XML attributes to setting the Application Name and Icon? **1**
(a) android_application and android_icon
(b) android:icon="..." and android:label="..."
(c) android:application and android:launcher
(d) android:application and android:icon
- ix. Identify the correct syntax for creating or opening the database: **1**
(a) SQLiteDatabase myDB = createDatabase ("db name");
(b) SQLiteDatabase mydatabase = openDatabase ("db name", MODE_PUBLIC, null);
(c) SQLDatabase myDB = openOrCreateDatabase ("db name", null);
(d) SQLiteDatabase myDB = openOrCreateDatabase ("db name",MODE_PRIVATE, null);
- x. What is the use of .execSQL() method? **1**
(a) Execute a single SQL statement that is NOT a SELECT or any other SQL statement that returns data
(b) Execute SELECTE query
(c) Execute JOINS query
(d) None of the above
- Q.2 Attempt any two: **5**
i. Why OHA formed? What is the vision of Google behind spreading tools to the wireless marketplace? **5**
ii. Draw and explain underlying architecture of android platform. **5**
iii. Explain Android Application framework with diagram. **5**
- Q.3 Attempt any two: **5**
i. Write the code example of an AutoCompleteTextView that can help user to type month names from an array. **5**
ii. Write a brief note on "androidmanifest.xml" file. Explain purpose and importance of this file for android project. **5**

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- iii. Write note on Layout Resources with respect to android. **5**
- Q.4 Attempt any two: **5**
i. What is Activity? Explain various states of activities of application. **5**
ii. Explain setOnClickListener event. Give the appropriate example. **5**
iii. Write the note on displaying text to users with TextView, configuring sizing and setting up the background color and text color. **5**
- Q.5 Attempt any two: **5**
i. What are dialogs in android? Explain various dialogs supported by android with example. **5**
ii. Explain menu in Android. Write program code to include menu dynamically. **5**
iii. What is notification? How it is differ from Toast? **5**
- Q.6 Attempt any two: **5**
i. What is SQLite Database? Explain methods for creating, deleting and querying records from database. **5**
ii. Explain the use of ContentValues to insert the record. Also throw light on four arguments are taken by update() method. **5**
iii. Explain with example that how SQLiteQueryBuilder can be used to build and execute INNER JOINS between two tables? **5**

**CA5EL27 Mobile Application Development
Marking Scheme**

Q.1	i. What was the OHA's reason for replacing the Java VM with the Dalvik VM? (a) Java VM was not free	1	Q.3	Attempt any two: i. XML – 2 marks Java File – 3 marks	5
	ii. .apk extension stands for? (d) Application Package	1		ii. androidmanifest file elements – 3 marks Purpose and importance - 2 marks	5
	iii. Which of the below are used to creating a UI (User Interface) in Android? (b) XML and Java	1		iii. Each Layout Resources – 1 mark 5 * 1 mark = 5 marks)	5
	iv. Which component is not activated by an Intent? (b) ContentProvider	1	Q.4	Attempt any two: i. Activity definition – 1 mark Activity life cycle Diagram – 1 mark Various states of activity – 3 marks	5
	v. What is splash screen in android? (a) Initial screen of an application	1		ii. setOnClickListener description – 2 marks Example – 3 marks	5
	vi. Select the below program statement to launching a new Activity by Class name. (d) startActivity(Activity2.class);	1		iii. Displaying text – 1 mark Size -2 marks Setting up the background colour – 1 mark Setting text colour – 1 mark	5
	vii. android:padding attributes with Button widget used for? (c) Sets the padding, in pixels, of all four edges.	1	Q.5	Attempt any two: i. Dialogs in android – 1 mark Types of dialogs - 4 marks	5
	viii. Which XML attributes to setting the Application Name and Icon? (b) android:icon="..." and android:label="..."	1		ii. Menu in Android – 1 mark Program for menu – 4 marks	5
	ix. Identify the correct syntax for creating or opening the database: (c) SQLiteDatabase myDB = openOrCreateDatabase ("db name", null);	1		iii. Notification – 2 marks Difference between toast and notification – 3 marks	5
	x. What is the use of .execSQL() method? (a) Execute a single SQL statement that is NOT a SELECT or any other SQL statement that returns data	1	Q.6	Attempt any two: i. SQLite Database – 2 marks Different methods for creating, deleting and querying- 3 marks	5
Q.2	Attempt any two: i. OHA formation – 3 marks Vision of Google – 2 marks	5		ii. ContentValues – 3 marks 4arguments of update() method – 2 marks	5
	ii. Architecture diagram - 2 marks Layers explanation – 3 marks	5		iii. Create Table – 1 mark Insert Data – 1 mark Inner join – 3 marks	5
	iii. Diagram of Application framework - 2 marks Description of components of Application framework – 3 marks.	5			
