



Enrollment No.....

## Faculty of Science

End Sem (Even) Examination May-2019

CA3SE10 Mobile Application Development

Programme: BCA

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. SQLite is in which layer of android architecture **1**  
 (a) Linux Kernel (b) Libraries  
 (c) Android Runtime (d) Application Framework
- ii. API 16 is **1**  
 (a) Kitkat (b) Oreo (c) Pixel (d) Jelly bean
- iii. Parent class of LinearLayout **1**  
 (a) View (b) ViewGroup  
 (c) RelativeLayout (d) TableLayout
- iv. getTextOff() method is used to read text of **1**  
 (a) CheckBox (b) Button  
 (c) RadioButton (d) ToggleButton
- v. TextWatcher interface have how many methods **1**  
 (a) 1 (b) 2 (c) 3 (d) 4
- vi. Right way to specify style of a widget is **1**  
 (a) style="@+style/CustomStyle"  
 (b) style="@style/CustomStyle"  
 (c) style="+style/CustomStyle"  
 (d) style="style/CustomStyle"
- vii. SpinnerAdapter is **1**  
 (a) Interface (b) Class (c) Method (d) Instance variable
- viii. Application of toast is **1**  
 (a) Go from one activity to another  
 (b) Start a service  
 (c) Show a message  
 (d) Both (a) and (b)

- ix. moveToPosition() method is in the class **1**  
 (a) ContentValues (b) SQLiteDatabase  
 (c) Cursor (d) Object
- x. Parent class of ContentValues is **1**  
 (a) View (b) Cursor (c) Object (d) ViewGroup
- Q.2 i. Explain android ecosystem with diagram. **3**  
 ii. Explain android architecture with diagram. **7**
- OR iii. Write history of android in detail. **7**
- Q.3 i. Explain XML attributes of Manifest.xml with code of manifest file. **4**  
 ii. Design login screen by using LinearLayout and TableLayout. **6**
- OR iii. Write XML properties of LinearLayout, AbsoluteLayout and RelativeLayout. **6**
- Q.4 Attempt any two:  
 i. Write a program for OnItemClickListener event. **5**  
 ii. Write a program for text changed event. **5**  
 iii. Write complete program (xml, manifest and java files) for splash screen. **5**
- Q.5 i. Explain adapter in android with diagram. **4**  
 ii. Write XML and java code for menu design with event. **6**
- OR iii. Write android program for SMS and phone call. **6**
- Q.6 Attempt any two:  
 i. Write an android program to insert a record into database table and display it. **5**  
 ii. Write android program to update and delete row from the database table. **5**  
 iii. Explain methods in SQLiteDatabase and SQLiteOpenHelper. **5**

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P.T.O.

**Marking Scheme**  
**CA3SE10 Mobile Application Development**

Q.1	i.	SQLite is in which layer of android architecture (b) Libraries	<b>1</b>
	ii.	API 16 is (d) Jelly bean	<b>1</b>
	iii.	Parent class of LinearLayout (b) ViewGroup	<b>1</b>
	iv.	getTextOff() method is used to read text of (d) ToggleButton	<b>1</b>
	v.	TextWatcher interface have how many methods (c) 3	<b>1</b>
	vi.	Right way to specify style of a widget is (b) style ="@style/CustomStyle"	<b>1</b>
	vii.	SpinnerAdapter is (a) Interface	<b>1</b>
	viii.	Application of toast is (c) Show a message	<b>1</b>
	ix.	moveToPosition() method is in the class (c) Cursor	<b>1</b>
	x.	Parent class of ContentValues is (c) Object	<b>1</b>
Q.2	i.	Android ecosystem explanation Diagram.	<b>3</b>
	ii.	Android architecture 1 mark for each layer (1 mark * 5) Diagram	<b>7</b>
OR	iii.	History of android 1 mark for each version	<b>7</b>
Q.3	i.	XML attributes of Manifest.xml with code of manifest file. Explanation code of manifest file	<b>4</b>
	ii.	Login screen by using LinearLayout Login screen by using TableLayout.	<b>6</b>

OR	iii.	XML properties of LinearLayout AbsoluteLayout RelativeLayout.	<b>6</b>
Q.4	Attempt any two:		
	i.	Program for OnItemClickListener event. On Create() method Event handler	<b>5</b>
	ii.	Program for text changed event. On Create() method Event handler	<b>5</b>
	iii.	Complete program (xml, manifest and java files) for splash screen Java class XML Manifest file	<b>5</b>
Q.5	i.	Adapter in android with diagram Explanation Diagram	<b>4</b>
	ii.	XML Java code	<b>6</b>
OR	iii.	Android program for SMS Android program for phone call.	<b>6</b>
Q.6	Attempt any two:		
	i.	Android program to insert a record into database table and display Insertion into database table Selection from database table	<b>5</b>
	ii.	Android program to update and delete row from the database table Update database row Delete database row	<b>5</b>
	iii.	Methods in SQLiteDatabase Methods in SQLiteOpenHelper.	<b>5</b>

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