Enrollment No.....................................

Faculty of Engineering

End Sem (Odd) Examination Dec-2018

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. SGL is used for   **1**
(a) Font displaying   (b) 2G graphics
(c) 3G graphics   (d) Embedded System

ii. Android version 1.0 released in   **1**
(a) 2006   (b) 2007   (c) 2008   (d) 2009

iii. Base class of ToggleButton is   **1**
(a) View   (b) Viewgroup
(c) CompondButton   (d) None of these

iv. onStart() method is called when   **1**
(a) Activity becomes visible (b) Interaction starts
(c) Activity destroyed   (d) Activity becomes invisible

v. OnItemSelectedListener interface has how many methods   **1**
(a) 1   (b) 2   (c) 3   (d) 4

vi. Correct code to apply a style on textview is   **1**
(a) style="@style/GreenText"
(b) style="+@style/GreenText"
(c) style="style/GreenText"
(d) None of these

vii. No of arguments in makeText() is   **1**
(a) 1   (b) 2   (c) 3   (d) 4

viii. Dialog class found in the package   **1**
(a) android.os   (b) android.app
(c) android.widget   (d) None of these

P.T.O.

ix. Parent Class of ContentValues class is   **1**
(a) Cursor   (b) View   (c) Object   (d) SQLiteDatabase

x. insert() method is in the class   **1**
(a) ContentValues   (b) Cursor
(c) SQLiteDatabse   (d) SQLiteOpenHelper

Q.2 i. Give a short description of android ecosystem with diagram.   **2**
ii. Draw android architecture diagram, Explain each layer in detail.   **8**
OR iii. Write the history of android. Give description of each android **8**
version.

Q.3 i. Describe ListView and Spinner with XML attributes.   **4**
ii. Explain RelativeLayout, LinearLayout and AbsoluteLayout with   **6**
XML attributes.
OR iii. Design a page using FrameLayout and TableLayout.   **6**

Q.4 i. Explain styles and themes with example.   **3**
ii. Write an android program to create splash screen.   **7**
OR iii. Write an android program for listview, each selection of item in the **7**
listview navigates to another activity.

Q.5   Attempt any two:
i. Explain Adapters in android.   **5**
ii. Write an android program for menu.   **5**
iii. Write an android program for Phone Call.   **5**

Q.6   Attempt any two:
i. Explain methods used in Cursor and SQLiteDatabase class.   **5**
ii. Write android program for deletion and updation of rows from   **5**
database table and display suitable message.
iii. Write android program for insertion of record into database table **5**
and display selection of particular record from database table.

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Marking Scheme

CA5EL27 Mobile Application Development

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Q.1 i. SGL is used for   **1**
(b) 2G graphics

ii. Android version 1.0 released in   **1**
(c) 2008

iii. Base class of ToggleButton is   **1**
(c) CompondButton

iv. onStart() method is called when   **1**
(a) Activity becomes visible

v. OnItemSelectedListener interface has how many methods   **1**
(b) 2

vi. Correct code to apply a style on textview is   **1**
(a) style="@style/GreenText"

vii. No of arguments in makeText() is   **1**
(c) 3

viii. Dialog class found in the package   **1**
(b) android.app

ix. Parent Class of ContentValues class is   **1**
(c) Object

x. insert() method is in the class   **1**
(c) SQLiteDatabse

Q.2 i. Android ecosystem with diagram   **2**
Description   1 mark
Diagram   1 mark

ii. Android architecture diagram   3 marks   **8**
Layers description- 1 Mark each layer (1 mark * 5) 5 marks

OR iii. History of android –   3 marks   **8**
Description of versions –   5 marks

Q.3 i. ListView with XML attributes –   2 marks   **4**
Spinner with XML attributes –   2 marks

ii. RelativeLayout with XML attributes –   2 marks   **6**
LinearLayout with XML attributes –   2 marks
AbsoluteLayout with XML attributes –   2 marks

OR iii. XML file for FrameLayout –   3 marks   **6**
XML file for TableLayout –   3 marks

Q.4 i. Description of style and themes –   1.5 marks   **3**
Example –   1.5 marks

ii. XML files -   3 marks   **7**
Java files -   3 marks
Manifest file -   1 mark

OR iii. Java file –   5 marks   **7**
XML file –   2 marks

Q.5 Attempt any two:
i. Explain Adapters in android.   **5**
Each Adapter – 1 mark   (1 mark * 5)

ii. Java File –   3 marks   **5**
Activity_main.xml –   1 mark
Menu.xml –   1 mark

iii. Java File –   3 marks   **5**
Activity_main.xml –   1 mark
Manifest.xml –   1 mark

Q.6 Attempt any two:
i. Methods in Cursor class –   2.5 marks   **5**
Methods in SQLiteDatabase –   2.5 marks

ii. Deletion –   2.5 marks   **5**
Updation –   2.5 marks

iii. Insertion –   2.5 marks   **5**
Selection -   2.5 marks

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