

SET A

Unique Paper Code : 42343601
Name of the Course : B.Sc. (Prog.) Physical Science/ Mathematical Science
Name of the Paper : Android Programming
Semester : VI
Duration : 1 Hours
Maximum Marks : 25
Year of Admission : Admissions of 2015, 2016 & 2017

Attempt any 2 questions. All questions carry equal marks

All parts of questions must be attempted together

Q1: Explain the different **UI components** of **View** class? Write two ways to handle the **onClick** event of a **button**.

Q2: Draw the **Activity Life Cycles** for following instances for **Activity A**:

- a) An email is notified when you're working on Activity A.
- b) You switch from Activity A to activity B of another application and close the Activity A.
- c) You switch from activity A to activity B of the same application.
- d) You changed your phone from **Landscape to Portrait mode** while working on Activity.

Also write a note on **Android Architecture** and **explain** its working?

Q3: Write a code for creation of a **Database** named "**Chatbox**" and **Table** named "**Chat**" using **SQLite Database** for Android Application, then write code for insertion of data into database by passing **ContentValues** object.

Table : "Chat"

Column Name	Data Type	Attributes
_id	INTEGER	Primary Key, Auto Increment
user_id	TEXT	
image_text	TEXT	
timestamp	TEXT	
image_id	INTEGER	

Assumption: Three images for three chat messages named happy_birthday, good_luck and friends, these files stored locally in the Android project.

Insert the below records in **Chat** Table

user_id	image_text	timestamp	image_id
"u_000944"	"I wish you happy birthday"	"2020-03-01 09:12:25:005"	R.drawable.happy_birthday
"u_000954"	"Good luck for your exam!"	"2020-03-01 09:12:26:008"	R.drawable.good_luck
"u_000065"	"Friends Smiling"	"2020-03-01 09:12:36:018"	R.drawable.friends

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