

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Software for Mobile Devices	Course Code:	CS-440
Program:	BS (Computer Science)	Semester:	Spring 2019
Duration:	60 Minutes	Total Marks:	30
Paper Date:	13-Apr-19	Weight	15 %
Section:	All	Page(s):	2
Exam:	Midterm-II	Reg. No.	

Instruction/Notes: This exam is open book open notes.
While writing code, make best effort to write correct and relevant code only. Minor syntactic errors are acceptable and will be ignored during marking but overall concept and approach must be correct.

Question 1

(20 points)

Consider a discussion forum application (e.g. Quora) that requires the following information to be stored:

Column	Description
Question	Statement of the question
Subject	Category assigned to Question
Description	Question details

Provide implementation for a content provider that can store information in a local database, while making use of all the best practices for data storage. Your solution shall provide the following:

- Implementation of content provider
- Implementation of database storage
- Implementation of other related classes, necessary for handling data

Question 2

(10 points)

Identify error in the following code. State your reason for the error and rewrite class with only missing/updated code.

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```
public class midtermAsyncTask extends AsyncTask<Void,Void,Void> {  
  
    TextView txtName;  
  
    midtermAsyncTask(TextView txt) {  
        txtName = txt;  
    }  
  
    @Override  
    protected Void doInBackground(Void... voids) {  
        String myName = downloadData();  
        txtName.setText(myName);  
        return null;  
    }  
}
```