UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Open Source Mobile Platform   **Semester   : V**
Program: B. Tech. CSE+OSOS   **Time   : 03 hrs.**
Course Code: CSOS 3001   **Max. Marks: 100**

Instructions:
> **All Questions are compulsory**
> **Write appropriate XML and JAVA files wherever required**
> **Write all assumptions in the form of comments.**

SECTION A

S. No.		Marks	CO
Q 1	Justify significance of Android Manifest file.	**4**	**CO1**
Q 2	Differentiate between internal and external memory storage in android application. Discuss about necessary functions required for external storage.	**4**	**CO4**
Q 3	What is SQLite database? How to create database connection using SQLite database?	**4**	**CO3**
Q 4	Create an android application with required components that shows current location of the User.	**4**	**CO4**
Q 5	Demonstrate use of Spinner view in android app with suitable example.	**4**	**CO3**

SECTION B

Q 6	Explain the following Layouts used in Android application: • LinearLayout • RelativeLayout	**10**	**CO2**
Q 7	Develop an android application to store the details of a student permanently and display the details in another activity using shared preference.	**10**	**CO3**
Q 8	Describe use of Intent. Differentiate Explicit and Implicit Intents.	**10**	**CO1**
Q 9	Illustrate use Notification in Android app with suitable example. **OR** Create an android application that contains a TextView, displays a message and two Buttons, 'CHANGE FONT' and 'CHANGE COLOR', which change font size and color of given message respectively. Separate data from code and write required resource files.	**10**	**CO2**

SECTION-C			
Q 10	Develop layout for an Activity used to insert student details (Roll no, Name, marks, DOB). Save entered data into SQLite database. Display a toast message after each successful insertion. Add another activity used to search and display details of specific student.	**20**	**CO4**
Q 11	Explore use of different options available to make our data persistence in android application. Demonstrate use of internal memory with the help of traditional file I/O by storing username and password in a text file. **OR** Develop an android activity that generates a custom List View. Each row of the list contains images and texts. List out Country Flag image, Country name, and captain of cricket team as shown in figure 1. **INDIA** Virat Kohli *Figure 1: Sample View of each row*	**20**	**CO3**