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

Course: Mobile Application Development using Android   Semester: III
Program: B.Tech. CSE-Mobile Application Development   Time 03 hrs.
Course Code: CSMC 2007   Max. Marks: 100

Instructions: Attempt all questions.

S. No.	SECTION A	Marks	CO
Q 1	List out the core components of android architecture. Draw a suitable diagram of android architecture.	2.5+1.5	CO1
Q 2	Discuss the role and responsibilities of AndroidManifest.xml file. Take suitable example.	2+2	CO1, CO2
Q 3	Differentiate between wrap content and match parent; provide a suitable example to explain the logic.	2+2	CO1, CO2
Q 4	Differentiate between Relative Layout and Linear Layout. Show suitable example to explain the logic.	4	CO1, CO2
Q 5	Define the method to apply a style as a theme for your android application.	4	CO3
	SECTION B		
Q 6	Differentiate between option menu and context menu. Create an option menu based android application for a Restaurant.	3+7	CO2, CO3
Q 7	Draw and explain the acitivity life cycle. Write the java code to explain all the methods of life cycle.	4+6	CO3, CO4
Q 8	"Fragment is also known as sub activity", to justify the statement create a simple fragment based application. Take any suitable example of your choice.	4+6	CO3, CO4
Q 9	Develop a notification based android application.	10	CO3, CO4
	OR		
Q 9	Create a media based android application. Take suitable example for clarification.	10	CO3, CO4
	SECTION-C		

Q 10	Write a detailed note on the following:
	  1. Location and Map based Services
	  2. All necessary steps to publish an android application
		12+8	CO3, CO4

Q 11	Develop an academic system of School of Engineering, UPES, Dehradun. Take following parameters for considering in your application: 1. Total Number of Faculties,	4+4+4+4+4	CO1, CO2, CO3,

			CO4
	2. Total Number of Branches e.g. Computer Science, Electronics and Communication, Mechanical, Civil, and Electrical. 3. Total number of students in each branch 4. Total number of faculties in each branch. 5. Year wise students in each branch e.g. First year, second year, third year, and forth year. Use appropriate database to develop the application.		
	OR		
Q 11	Discuss the role of SQLite in android application development. Create a database related small android application of your choice.	**5+15**	**CO1, CO2, CO3, CO4**