

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Programme: B.Tech CS(OS&OS)
Course Name: Open Source Mobile Platform
Course Code: CSEG 306

Semester: V
Time: 03 hrs.
Max. Marks: 100

Instructions: All questions are compulsory.

SECTION A

S. No.		Marks	CO
Q 1	Enlist and discuss four native Android libraries used in Android architecture.	4	CO1
Q 2	What is API level and why it is very important?	4	CO2
Q 3	Describe the role of Dalvik virtual machine.	4	CO3
Q 4	What is the role of Dialog and AlertDialog classes?	4	CO2
Q 5	Explain fragments in android programming with suitable example.	4	CO3

SECTION B

Q 6	What is sound pool? How it is created?	10	CO4
Q 7	What type of settings must be configured in order to record a media in android application?	10	CO5
Q 8	Create an android application that uses a SurfaceAnimator class to animate an object.	10	CO5
Q 9	What tasks are performed to create an application using Google Maps Android API? OR Enlist and explain five data storage mechanisms in android development.	10	CO5

SECTION-C

Q 10	a. Write a code to use Intent to record videos in android development. b. How is graphics drawn to Canvas in Android development?	10×2	CO5
Q 11	a. Explain SQLite database in detail. b. Explain the role of SharedPreferences class. OR a. Explain general steps to create Toast Notifications? b. How to create Status Bar Notifications?	10×2	CO4

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SECTION A

S. No.		Marks	CO
Q 1	Enlist the features of Android OS.	4	CO1
Q 2	What is API level and why it is very important?	4	CO2
Q 3	Describe the role of Content providers in android.	4	CO3
Q 4	Discuss the major android application components.	4	CO2
Q 5	Explain tween animations in android.	4	CO3

SECTION B

Q 6	What is sound pool? How it is created?	10	CO4
Q 7	Explain any four layouts used in android.	10	CO5
Q 8	Create an android application that uses a SurfaceAnimator class to animate an object.	10	CO5
Q 9	How to create a home screen widget in android? OR What is the role of ImageSwitcher view?	10	CO5

SECTION-C

Q 10	a. Create an android application in which the shared preferences can be used across the multiple activities within an application. b. How to create option menu in android?	10×2	CO5
Q 11	a. Explain SQLite database in detail. b. Explain the role of ShapeDrawable class. OR a. Explain general steps to create Toast Notifications? b. How will you prepare the APK package?	10×2	CO4