EVENING

[Total No. of Questions: 09]
Uni. Roll No. ....

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Program: B.Tech. (Batch 2018 onward)
Semester: 8th
Name of Subject: Mobile Application Development
Subject Code: PEIT-116
Paper ID: 17414
Scientific calculator is NotAllowed

Time Allowed: 03 Hours   Max. Marks: 60

NOTE:

1) Parts A and B are compulsory
2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
3) Any missing data may be assumed appropriately

Part – A   [Marks: 02 each]

Q1.

a) Name the root element of AndroidManifest.xml file and Is it possible to have an activity without UI in android?

b) Write a code to add two numbers on OnClick Listener.

c) If you want to play a song and want to get information of the current song being played. Write the method to be called that provide information.

d) How can the XML editor help in eliminating errors during Android user Interface design?

e) Write a code to centerized the text of a button? _____ defines the extra space on the topside of the layout.

f) Can you explain the purpose and functionality of the Android Debug Bridge (ADB) in debugging Android applications?

Part – B   [Marks: 04 each]

Q2. List the needs of fragments. Discuss the fragment life cycle.

Q3. Discuss Android activity lifecycle and Components of android application.

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Q4. How is SQLite utilized as a built-in content provider in Android for persistent data storage?

Q5. How does the spawning process work in Android, and what is its relationship with the Service class?

Q6. Compare View Group Class and View Class

Q7. List the Seven rules for developing mobile strategy and discuss.

Part – C   [Marks: 12 each]

Q8. Within the Android development framework, activities and services play crucial roles. Can you explain the lifecycle of an Android activity and a service, from their initialization to their termination? What are the key methods and events that developers need to be aware of to manage the state and behaviour of activities and services effectively?

OR

Assume yourself as an "Android Developer" who wants to launch an application on Google Playstore. As a developer you need to develop an application, prepare it for release and publish the application for the users to directly use it.

Q9. Elaborate on the lifecycle of a Fragment in Android. How does the Fragment lifecycle differ from that of an Activity, and what are the key methods and states involve? How does fragment class contribute to app interactivity and user interface design?

OR

Security is a critical aspect of Android app development. What is the process of requesting permissions in Android to ensure proper access to sensitive resources? Can you provide best practices for creating custom permissions to define specific access rules within an app?

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