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**Question Paper Code: 95203**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Fifth Semester

Computer Science Engineering

19UCS503 – Mobile Application Design and Development

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What is the Lifecycle of services in android? CO1- U  
(a) onCreate()->onStart()->onDestroy()      (b) onCreate()->onStart()->onResume()  
(c) onStart()->onDestroy()      (d) None of the above
2. An Android \_\_\_\_\_ is an abstract description of an operation to be performed. It can be used with start Activity to launch an Activity. CO1- U  
(a) Filter      (b) Intent      (c) Service      (d) Broadcast receive
3. Which element is used to display Google map in your UI. CO1- U  
(a) View      (b) Map      (c) MapView      (d) None of the above
4. Which class is used to send SMS programmatically in Android? CO1- U  
(a) Sms Sender      (b) Sms Manager      (c) Send Sms      (d) Sms Receiver
5. In Android, by default, SQLite database save data in? CO1- U  
(a) Memory      (b) External Storage  
(c) Internal Storage      (d) On the cloud

PART – B (5 x 3= 15 Marks)

6. Can you play android 2.1 Games on android 2.2? CO2- App
7. What is the difference between intent and intent filters? CO2- U
8. Explain about java classes related to the use of sensors on Android. CO1- U
9. Write a code for accessing the connectivity Manager CO2- U

10. Write a code to fetch the data using firebase CO1- U
- PART – C (5 x 16= 80Marks)
11. (a) What are view and view group classes in android? Why layouts are created using XML file? CO1- U (16)
- Or
- (b) When relative layout layout is used? Explain any six attributes of relative layout. CO1- U (16)
12. (a) Develop an android application to view the website “https://sethu.ac.in/” using your Browser. CO2- App (16)
- Or
- (b) Explain Intent and its types and also Create an android application to send an EMAIL using Intent Filter. CO2- App (16)
13. (a) Create a sensor application that changes the background color of an activity when the device is shaken. CO2- App (16)
- Or
- (b) Create a gravitational force meter using sensors CO2- App (16)
14. (a) Develop a simple music player android application that implements Media player class and uses its methods like play, pause and stop. Also use external files and build interface for music player app. CO2- App (16)
- Or
- (b) Develop an android application that captures image from a camera by defining a file provider, granting permissions to URI, storage and camera and manage result and show image through image view. CO2- App (16)
15. (a) Explain in detail about CRUD Operations in SQLite. CO1- U (16)
- Or
- (b) What is SQLite? Explain the steps for implementing SQLite database. CO1- U (16)