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Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 95503

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

Fifth Semester

Computer Science Engineering

19UCS503 – Mobile Application Design and Development

(Regulation 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Why don't we give Min SDK as 1 in android?   CO1- R

   (a) Android Deprecated Version   (b) There is no value for 1

   (c) Android doesn't allow min version as 1   (d) None of the above

2. An Android _____ is an abstract description of an operation to be   CO1- R
   performed. It can be used with startActivity to launch an Activity.

   (a) Filter   (b) Intent   (c) Service   (d) Broadcast receive

3. Which sensor is responsible for automatically locking the screen of the   CO1- R
   phone when you close the flip cover:

   (a) Barometer   (b) Hall effect sensor

   (c) Gyroscope   (d) Ambient light sensor

4. Which class is used to send SMS programmatically in Android?   CO1- R

   (a) SmsSender   (b) SmsManager   (c) SendSms   (d) SmsReceiver

5. On Android SQLite where can we define tables, columns, views, triggers?   CO1- R

   (a) onUpgrade()   (b) onInit()

   (c) onStart()   (d) onCreate()

PART – B (5 x 3= 15 Marks)

6. What Is the Android Manifest?   CO1- R

7. What is the difference between intent and intent filters?   CO2- R

8. How will you instantiate Location Manager object?   CO1- R

9. Write a code for accessing the connectivity Manager **CO2- R**

10. Write a code to fetch the data using firebase **CO1- R**

PART – C (5 x 16= 80Marks)

11. (a) Write a Xml and Java code for the following scenario: **CO2- App (16)**
Scenario :To create a layout that includes a text box and a button. when the button is tapped it will display the Toast message with the sting entered by user in Textbox.

Or

(b) Explain about Android Architecture in detail. **CO2- App (16)**

12. (a) Explain Intent and its types and also Create an android application **CO2- App (16)** to send an SMS using Intent Filter. .

Or

(b) When the user touches the button in the toolbar fragment, the **CO2- App (16)** fragment class is going to get the text from the Edit Text view and the current value of the Seek Bar and send them to the text fragment. fragments should not communicate with each other directly, instead using the activity in which they are embedded as an intermediary.

13. (a) Explain about sensors in detail **CO2- App (16)**

Or

(b) Write a java code to find all the available sensors and registering the **CO2- App (16)** sensors.

14. (a) Explain about Bluetooth connectivity in detail **CO2- App (16)**

Or

(b) Explain about Managing WI-FI Connections **CO2- App (16)**

15. (a) Explain in detail about Persisting data using SQLite? **CO2- App (16)**

Or

(b) Explain in detail about how to Store data into Firebase and Read **CO2- App (16)** data from Firebase.

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