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**Roll No. ....**

**TBS-503**

**B. Sc. (CS) (FIFTH SEMESTER)**  
**END SEMESTER EXAMINATION, 2021-22**

**ANDROID PROGRAMMING**

**Time : Three Hours**

**Maximum Marks : 100**

**Note : (i) All questions are compulsory.**

**(ii) Answer any *two* sub-questions among**

**(a), (b) and (c) in each main question.**

**(iii) Total marks in each main question are  
twenty.**

**(iv) Each question carries 10 marks.**

1. (a) Explain Android Architecture with a neat diagram. (CO1)

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(2)

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(b) Explain the various features of Android.

(CO1)

(c) Explain OHA.

(CO1)

2. (a) What are Intent ? Explain the use of intent with a proper example. (CO2)

(b) Explain Android activity. Explain its lifecycle. (CO2)

(c) Explain Broadcast receiver with an example. (CO2)

3. (a) Explain with the help of a program how event handling is done using button view. (CO3)

(b) How can we use Video in Android ? Explain with example. (CO3)

(c) What are sensors/actuators ? How does sensor work ? Explain. (CO3)

4. (a) How do content providers work ? Explain. (CO4)

(3)

(b) How can we read file from internal storage of Android phone ? Explain with an example. (CO4)

(c) Give introduction to SQLite with an example. (CO4)

5. (a) How to use Bluetooth in Android Studio ? Explain. (CO5)

(b) What is a Google MAP ? What are the different types of Google MAP ? Explain. (CO5)

(c) What are Callback Methods ? Explain with Google Map example. (CO5)

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