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Roll No. ....

## TBC-502/TBI-501

B. C. A./B. SC. (IT)

### (FIFTH SEMESTER) END SEMESTER EXAMINATION, 2021-22

#### MOBILE APPLICATION DEVELOPMENT

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) How are Native and Hybrid apps  
different ? Explain in detail. (CO1)

(b) Illustrate Android Boot process with a neat  
flowchart. (CO1)

(c) Explain Android Folder structure. (CO1)

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2. (a) What is Android SDK ? Explain. (CO2)  
(b) Explain Android Activity and its lifecycle. (CO2)  
(c) Explain Intent. What are the different types of Intent ? Explain with proper 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 camera in Android ? Explain with example. (CO3)  
(c) Explain sensors. How does sensor work ? What are the different categories of sensors ? (CO3)
4. (a) How can we read/write files using external storage in Android ? Explain with the help of a program. (CO4)  
(b) How can we write file in internal storage of Android phone ? Explain. (CO4)  
(c) How is SQLite used in Android Studio ? Explain. (CO5)

5. (a) How to use Bluetooth in Android Studio ? Explain. (CO5)  
(b) Write the steps for publishing Android App. (CO5)  
(c) What is a Google Map ? Explain the types of Google Map. (CO5)