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Roll No

TBC-502/TBI-501

B. C. A./B. SC. (IT)
(FIFTH SEMESTER)
END SEMESTER
EXAMINATION, Jan., 2023

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 sub-question carries 10 marks.
- 1. (a) Define Android operating system. Also discuss its architecture with a suitable diagram. (CO1)
 - (b) Discuss the file/folder hierarchy under android studio project. (CO1)

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- (c) Define the purpose of native and hybrid application. Also discuss its advantages as well as its limitations. (CO1)
- 2. (a) What do you mean by the term fragment? What is the need of fragment? Also discuss the life cycle of fragments. (CO2)
 - (b) Discuss android activity life cycle with example. (CO2)
 - (c) What are Intents? Discuss its types with suitable code. (CO2)
- 3. (a) What are Event Handlers and Event Listeners? List out various Event Handlers and Listeners with example.

(CO3)

(b) Define the term sensors. How do they work? Develop an application to display various in-built sensors in your device.

(CO3)

(CO3)

(c) Discuss MediaController class under multimedia. Develop an application to show the use of MediaController class.

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4. (a) What do you mean by the term content provider? How URI is linked with content provider. Discuss it with a suitable code.

(CO4)

- (b) Discuss the scope of Shared Preferences with an example. (CO4)
- (c) Define SQLite Databases. Explain with example CRUD operations performed on data inserted by user. (CO4)
- 5. (a) What are the various types of google maps? List out some inbuilt methods of google maps. (CO5)
 - (b) Define BluetoothAdapter class in android with an example. (CO5)
 - (c) Discuss the importance of Geocoder class with a suitable code. (CO5)