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Total No. of Questions : 9 ] [ Total No. of Pages : 3

**67103-N**

MCA 3rd Semester (Regular) Examination,

February-2022

(MCA 2 Year Programme)

(w.e.f. 2020-21)

Paper-21MCA23C3

**ANDROID MOBILE APPLICATION  
DEVELOPMENT**

Time : Three Hours ]

[ Maximum Marks : 80

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note :- Attempt five questions in all, selecting one question from each Unit. All questions carry equal marks.*

- I. (a) What is Mobile Device Profile ?
- (b) What is Shadows ?
- (c) What is Task ?

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- (d) What is Gradient ?
  - (e) What is Native Library ?
  - (f) What is Header ?
  - (g) What is Sending SMS ?
  - (h) What is a Phone Call ?
- 2×8=16

**Unit-1**

- 2. What do you mean by Mobile Applications ?  
What are the characteristics of good applications ?  
Explain with example. 16

- 3. (a) What are uses of Android APIs ? Explain with example.
- (b) What is Android ? What are its main features ? Discuss with example.
- (c) How Mobile Software Engineering using in Apps development ? Explain. 5.5,6

**Unit-II**

- 4. (a) How JDK and ADK are necessary for Android applications ? Explain with example.
- (b) What is Activity ? How is Activity used for navigation ? Explain with example.
- (c) What are Intents ? Explain with example. 8,5,3

- 5. Explain the following with example :
  - (a) Fragment
  - (b) MVC Architecture
  - (c) Layout

6+5+5=16

**Unit-III**

- 6. Explain the following with example :
  - (a) User Interface
  - (b) Multiple Layouts
  - (c) Content Provider

6+5+5=16

- 7. What is Google Maps Activity ? How it work with Map View and Map Activity ? Explain with example. 16

**Unit-IV**

- 8. (a) How are API keys necessary for Google Maps ? What are the steps to create API Keys ? Explain with example.

- (b) How does Bluetooth integrate into Apps ? Explain. 10,6

- 9. (a) What do you mean by Callbacks using in Google Maps based Android Apps ? Explain with a example.
- (b) What is Flutter ? Explain with example. 10,6