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9. Explain the following with example:
- (a) Flutter
 - (b) Android Manager
 - (c) Publishing Android Applications

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M.C.A. 3rd Semester (MCA 2 Year Programme)
w.e.f. 2021-2022, Examination, December-2022
ANDROID MOBILE APPLICATION
DEVELOPMENT
Paper-21MCA23C3

Time allowed : 3 hours] [Maximum marks : 80

Note: Students shall be required to attempt five questions, selecting at least one from each unit. All questions shall carry equal marks.

1. (a) What is MVC?
- (b) What is DLLs?
- (c) What is Task?
- (d) What is Gradient?
- (e) What is GUI?
- (f) What is Header?
- (g) What is Sending SMS?
- (h) What is a Application Signing?

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Unit-I

2. (a) What are the Mobile Applications in Android based Operating System? Explain the characteristics with example. 12
- (b) What do you mean by Application Model? Explain 4
3. (a) How Memory Management is main component in application design? Explain with example. 5
- (b) What is Dynamic Linking? What are its main features? Discuss with example. 5
- (c) How Frameworks and Tools are used in Apps development? Explain. 6

Unit-II

4. (a) What is Traditional Programming Model? How JDK and ADK are differ? Explain with example. 8
- (b) What is Multi-platform development? How Activity is differ from Fragment? Explain with example. 5
- (c) What are Intents? Explain with example. 3

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5. Explain the following with example: 6+5+5

- (a) Gradients
- (b) Layouts
- (c) Packaging and Development

Unit-III

6. What do you mean by Building an user Interface? Explain Blank UI, Folding and Unfolding a scalable UI with example. 16
7. Explain the following with example: 6+5+5
- (a) Near Field Communication
- (b) Native Libraries and Headers
- (c) Building client server applications

Unit-IV

8. (a) What are steps to generate API keys? How are API keys necessary for Apps? Explain with Example. 10
- (b) What is GPS and Wi-Fi Integration? How Bluetooth integrate into Apps? Explain. 6

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