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Question Paper Code : 30146

M.C.A. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Second Semester

MC 4204 – MOBILE APPLICATION DEVELOPMENT

(Regulations – 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Brief the term Mobile Application Development.
2. The barrier to entry for new Android developers is minimal. Justify the statement.
3. Why do we want to build generic user interfaces?
4. Define MultiModal UI.
5. Write the need for Java API.
6. Brief is the purpose of Dynamic Link Libraries.
7. Write the three ways to protect Android devices?
8. Mention the features of iOS Operating System.
9. What is mean by Bluetooth Communication?
10. Write short notes about Property Animators.

PART B — (5 × 13 = 65 marks)

11. (a) Define Framework. Explain the different kinds of framework and tools for mobile applications. (13)

Or

- (b) (i) With neat diagram explain about the Mobile Application Architecture. (8)
- (ii) Mention the types of Mobile Application Technologies. (5)

12. (a) Write Short notes about
- (i) Design patterns used in UI Development. (8)
 - (ii) Elements of UI. (5)

Or

- (b) Explain about the design goals and functions of VoiceXML. (13)
13. (a) Explain in detail about the Workflow for Application Development. (13)

Or

- (b) (i) Discuss in detail about the Resource Management concept in Application Design. (8)
- (ii) Write short notes on plugins and rule of thumb for using DLLs. (5)
14. (a) With neat diagram explain about the Android Application Architecture. (13)

Or

- (b) (i) Explain about the different storage options in Android. (10)
- (ii) Discuss about the three biggest threats to Android devices. (3)
15. (a) Explain about the concepts involved in telephony. (13)

Or

- (b) Discuss in detail about the Notification and Alarm concepts in Android Mobile. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Write the types of Google maps, what are the call back methods used in Google.maps? Explain the methods to display the current location data in android. (15)

Or

- (b) Discuss core components of an android app (specifically activities, intents and services) and how they are put together to create full featured app. (15)