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Reg. No. :

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Fifth Semester

Computer Science and Business Systems

19UCB504– Mobile Applications Development and Services

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A programming environment that has been packaged as an application   CO1- U
   program.

   (a) Programming Language   (b) Android SDK

   (c) Visual Studio   (d) Integrated Development Environment

2. A Mobile application is a _____application designed to run on   CO1- U
   smart phones, tablet computers and other mobile devices.

   (a) Hardware   (b) malware   (c) software   (d) OPL

3. All layout classes are the subclasses of   CO1- U

   (a) android.widget   (b) android.view.View

   (c) android.view.Viewgroup   (d) None of the above

4. Which of the following android component displays the part of an   CO1- U
   activity on screen?

   (a) View   (b) Manifest   (c) Intent   (d) Fragment

5. Which of the following is Application development environments for   CO1- U
   iOS?

   (a) Cocoa   (b) Cocoa touch   (b) Cocoa iOS   (d) Cocoa begin

6. In Which state the app is running in the foreground and is receiving   CO1- U
   events?

   (a) Not running   (b) Inactive   (c) Background   (d) Active

7. Which Of The Following Is Incorrect Data Type In SWIFT ?   CO1- U

(a) UInt   (b) Double   (c) Char   (d) Optional

8. Which is not a valid Android resource file name of the following?   CO1- U

(a) my_layout.xml   (b) mylayout.xml   (c) my_layout.xml   (d) mylayout.xml

9. Which of the following has made the development of mobile Web   CO1- U
applications much easier and more powerful?

(a) Web Services   (b) Cloud Computing   (c) IM   (d) None of the above

10 Which of the following is the core module of Android for Internet   CO1- U
computing?

(a) SQLite RDBMS   (b) SQLServer DBMS

(c) OpenPL   (d) None of the mentioned

PART – B (5 x 2= 10 Marks)

11 What is the importance of mobile strategies in the business world?   CO1- U

12 What is the use of Bundle in Android?   CO1- U

13 What are architecture patterns in iOS?   CO1- U

14 What is core location in iOS?   CO1- U

15 What is the main purpose of web service?   CO1- U

PART – C (5 x 16= 80 Marks)

16 (a) Discuss in detail about the market and business driver for Mobile   CO1-U   (16)
Application

Or

(b) (i) What are the requirements gathering and validation for mobile   CO1-U   (8)
application.
(ii) How to determine the Third party framework in Mobile   CO1-U   (8)
Application.

17 (a) Develop a native application that uses GPS locations information.   CO2-App   (16)

Or

(b) Write an application that draws basic graphical primitives on the   CO2-App   (16)
screen.

18 (a) Explain in details about User Interface Design tools in iOS   CO1-U   (16)
application.

Or

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	(b)	Why design patterns are important? Name some of the popular design patterns used in iOS?	CO1-U	(16)

19. (a) Develop an ios applications for adding UI elements associated with login form(user name and password).   CO2-App   (16)

                                          Or

     (b) Develop a native calculator application using swift iOS.   CO2-App   (16)

20. (a) Explain performance for best practices in android location mobility. What are the issues will face in location mobility.   CO1-U   (16)

                                          Or

     (b) Demonstrate how to create consumable web services for mobile devices.   CO1-U   (16)

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