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Exam Date & Time: 01-Jan-2021 (10:00 AM - 01:45 PM)



CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

FifthSemester of B. Tech (CE) Examination December 2020

MOBILE APPLICATION DEVELOPMENT -ELECTIVE-I [CE373]

Ma	rks: 70 Duration: 225 mins.
	Multiple Choice Question (Section I)
	swer all the questions.
1)	Supoose 'High' and 'Low' are two button IDs in Android. To place 'Low' button below the 'High', the correct syntax will be (1)
	1) android:layout below="@+id/High" 2) android:layout down="@+id/High" 3) android:layout down="@id/High" 4) android:layout down="@id/High"
2)	The method indicates Dalvik Virtual Machine to run the code in addition to the already existing code in
	the Oncreate() of the parent class. (1)
	1) super.oncreate(savedInstanceState) 2) super.onCreate(savedInstanceState) 3) super.onCreate(savedinstancestate) 4) super.onCreate(SavedInstanceState)
3)	What is default value of android:layout_weight attribute? (1)
	1) 0 2) 1 3) 2 4) 3
4)	Select incorrect value for android:imeOptions attribute.
	1) actionDone 2) actionGo 3) actionReturn 4) actionNone
5)	Find odd option out with respect to direct subclasses of ViewGroup in Android.
	1) FrameLayout 2) LinearLayout 3) AdapterView 4) CalendarView
6)	What will be behaviour of following code? Intent mycharusat = new Intent();
	mycharusat.setAction(Intent.ACTION VIEW);
	mycharusat.setData(android.net.Uri.parse(""https://www.charusat.ac.in"")); startIntent(mycharusat);" (1)
	1) Starts a sub- 2) Starts a 3) Starts an activity using an 4) Error
7)	Inagine that fragment 'A' has been replaced without adding it to the backstack, still you can find
')	Fragment 'A' in FragmentManager. Select the correct statement with respect to above scenario with
	respect to Android.
	The defined The defined Undefined You can not 1) statement is 2) statement is 3) behavior of 4) replace a
	TRUE. FALSE Fragment 'A' fragment.
8)	Adding,Removing and Replacing a fragment is collectively known as in Android.
	1) FragmentTransaction 2) FragmentManager 3) FragmentClass 4) FragmentView
9)	Which of the following code snippet will check whether the query returned an empty set by testing the return value in the Cursor object in Android? (1)
	1) cursor.moveFirst() 2) cursor.FirstMove() 3) cursor.moveToFirst(); 4) cursor.sendToFirst();
10)	Which of the following is not a storage class in SQLite?
	1) INTEGER 2) FLOAT 3) NULL 4) TEXT
11)	Suppose you are developing an Android application that will show live currency exchange rates. What will be your best choice to implement the same?
	1) Creating your own database 2) Website 3) SQLite Database 4) Use Web Services (1)
12)	Which is the first method to be called when any iOS application runs?
	1) onCreate() 2) viewDidLoad() 3) viewDidAppear() 4) viewWillAppear() (1)
13)	
	1) UIAppDelegate 2) UIView 3) UIViewController 4) UIWindow (1)
14	
	var alphabates = ["A" : "a" , "B" : "b" , "C" : "c"] print(alphabates["D"]) (1)
	1) Compile time error 2) Run time error 3) nil 4) 0
15)	keyword will pass array as a reference in Swift.

2) outin

3) var

4) ref

1) inout

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16)
              Output of following Swift (5.x version) code will be
                                                                                                                     (1)
              struct A
              var p:Int = 10
              func printp()
              print("printing p")
              struct B: A
              var q:Int = 20
              func printq()
              print("printing q")
              var ob = B()
              ob.printp()
              1) printing p
                                  2) printing p printing q
                                                               3) printing q
              Suppose you are creating a view at X:0, Y:0, width:50, height:50 in iOS application. Now you move
17)
              that view to X:50. With respect to above scenario find out the correct statement.
                                                                                                  Neither
                                              frame will reflect
                                                                          Both frame
                                                                                                                     (1)
                   bound will reflect
                                                                                                  Frame nor
                                              that change but
                                                                         and bound
                                          2)
                  that change but its
                                                                                                 Bound will
                                              its bounds will
                                                                          will reflect the
                  frame will not.
                                                                                                  reflect the
                                              not.
                                                                          changes.
                                                                                                 changes.
                                is an object that manages an ordered collection of data items and presents them using
18)
              customizable layouts in iOS application.
                                                                                                                     (1)
              1) UIFrameView
                                     2) UIBoundView
                                                             3) UICollectionView
                                                                                         4) UIControllerView
19)
              Which type of swift pointer is returned when a new SQLite database is successfully opened or created
              in iOS?
                                                                                                                     (1)
              1) OpaquePointer
                                    2) ManagedBufferPointer
                                                                  3) CVaListPointer
                                                                                          4) UnmanagedPoniter
              Check the incorrect database type used for iOS application development.
20)
                                                                                                                     (1)
              1) SQLite
                                2) RealDB
                                                 3) Realm
                                                                 4) Core Data
                                                Descriptive ( Section II )
Answer 5 out of 7 questions.
              Explain Android software stack in detail.
1)
                                                                                                                     (5)
2)
              Differentiate compilation process of Java code and Android code with respect to DVM / ART.
                                                                                                                     (2)
    2.1)
    2.2)
              Narrate any two elements of Android Manitest file.
                                                                                                                     (2)
    2.3)
              Give a suitable example that will distinguish usage of onStop() and onDestroy() method in activity life
                                                                                                                     (1)
              cycle of Android.
3)
              Create a hotel room information activity which will have information like room no, room type and
              room aminities in RelativeLayout and also show room images using GridLayout .Use nested layout and (5)
              write only XML file along with the sketch of design view.
              How we can set following components in ActionBar? Explain with example. 1. Applcon 2. Action
4)
                                                                                                                     (5)
              Overflow (Menu Items).
              Develop a job portal application using Fragment which will have list of job profiles in one fragment.
5)
              Based on user's interest, user can choose any one of them and second fragment should display in detail
              job description along with salary, package, job location etc. Draw the layout files using pencil /pen and (5)
              write code only for java file(s).
6)
              How can we pass / receive multiple data values to / from another intent? Describe by using suitable
                                                                                                                     (5)
              example (java code only).
              Create JAVA file for following database functionalities:
7)
              1. Create table "examData" with fields (ExamId, Name, Enrollment, Sem)
                                                                                                                     (5)
              2. Create method "insertExamDetails" to insert exam details in tblCharusatExam
                                                Descriptive (Section III)
Answer 5 out of 7 questions.
1)
              Write a clear note on any five methods of SQLiteOpenHelper class in Android.
                                                                                                                     (5)
2)
                                                                                                                     (5)
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Give simple description of following iOS / Xcode terminolgies. 1. Cocoa Touch Framework 2. Info.plist 3. AppDeligate.swift
4. Segues 5. ViewController.swift 3) How mobile application development differs in Android Studio and Xcode? (5) 4) What is optional variable in Swift? Mention any practical application where optional variable can be (5) useful. Explain three ways to unwrap it. Define a function in swift called sortmyarray() that will take one dimensional array as a input and sort it 5) (5) (The function shoul accept array as reference). 6) Explain following UI components with respect to iOS application development: 1)Scroll View (5) 2)Tabbed View 7) Specify necessary steps for database connectivity in iOS with a simple program. (5)

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