

**Charotar University of Science and Technology**  
**Devang Patel Institute of Advance Technology and Research**  
**Department of CE**  
**Subject: CE373 Mobile Application Developments**  
**External Exam**

**Semester: 5<sup>th</sup> (B. Tech.)**  
**Date: 02/12/2021, Thursday**

**Maximum Marks: 70**  
**Time: 10:00 am to 01:00 pm**

**Instructions:**

- (i) Attempt *all* the questions.
- (ii) Figures to the right indicate *full* marks.
- (iii) Make suitable assumptions

Sr. No	Questions	Marks	CO	BL
1	Which of the following layout is preferred for blocking the area for a single item on the screen? A. Linear Layout B. Frame Layout C. Constraint Layout D. Grid Layout	1	2	R
2	Which of the following virtual machine is used by the Android operating system? A. JVM B. Dalvik virtual machine C. Simple virtual machine D. None of the mentioned	1	1	R
3	_____ specifies how much of the extra space in the layout should be allocated to the view. A. android:layout_margin B. android:layout_weight C. android:layout_gravity D. android: gravity	1	2	U
4	What is the sequence of compilation for the android Runtime? A. dev2oat -> ART Runtime -> Native CODE -> DEX B. DEX -> Native Code -> dex2oat -> ART Runtime C. Native Code -> dex2oat -> ART Runtime -> DEX D. DEX -> dex2oat -> Native Code -> ART Runtime	1	1	R
5	A _____ is a simple building block of a user interface. A. Fragment B. Layout C. View D. View Group	1	2	U
6	A _____ is a piece of an activity that enable more modular activity design.	1	2	R

	<ul style="list-style-type: none"> <li>A. Fragment</li> <li>B. sub-activity</li> <li>C. Intents</li> <li>D. Filters</li> </ul>			
7	<p>Which method is used to launch a new activity or get an existing activity to do something new?</p> <ul style="list-style-type: none"> <li>A. Context.startActivity()</li> <li>B. Context.startService()</li> <li>C. Context.sendBroadcast()</li> <li>D. All of the mentioned</li> </ul>	1	2	R
8	<p>An Android _____ is an abstract description of an operation to be performed. It can be used with startActivity to launch an Activity.</p> <ul style="list-style-type: none"> <li>A. Filters</li> <li>B. Intent</li> <li>C. Service</li> <li>D. Broadcast Receiver</li> </ul>	1	2	U
9	<p>There are two activities in an application named ActivityA and ActivityB. You want to pass data ("Moblie Application Development") from ActivityA to ActivityB. What code will you write?</p> <ul style="list-style-type: none"> <li>A. Intent intent=new Intent (this, ActivityB.class); intent.putExtra("name", "MoblieApplication Development"); startActivity(intent);</li> <li>B. Intent intent=new Intent (this, ActivityB.java); intent.putExtra( "Moblie ApplicationDevelopment"); startActivity(intent);</li> <li>C. Intent intent=new Intent (); intent.putExtra("name", "Moblie Application Development");startActivity(intent);</li> <li>D. None of the above</li> </ul>	1	2	A
10	<p>Which of the following is not a valid Android resource type?</p> <ul style="list-style-type: none"> <li>A. Drawable</li> <li>B. Mipmap</li> <li>C. Style</li> <li>D. Manifest</li> </ul>	1	2	R
11	<p>Which of the following XML file is used to define custom themes and looks for the UI of the application?</p> <ul style="list-style-type: none"> <li>A. looks.xml</li> <li>B. colors.xml</li> <li>C. manifest.xml</li> <li>D. styles.xml</li> </ul>	1	2	R
12	<p>Dalvik Virtual Machine optimizes the virtual machine for _____</p> <ul style="list-style-type: none"> <li>A. memory</li> <li>B. battery life</li> <li>C. performance</li> <li>D. All of the mentioned</li> </ul>	1	1	U
13	<p>_____ is used to show notification for a particular interval of time.</p> <ul style="list-style-type: none"> <li>A. View</li> <li>B. Context</li> <li>C. TextView</li> <li>D. Toast</li> </ul>	1	2	R

14	<p>In the Activity life-cycle of android, what is the first callback method invoked by the system?</p> <p>A. onStop() B. onStart() C. onCreate() D. onRestore()</p>	1	2	R
15	<p>Which configuration file holds the permission to use the internet?</p> <p>A. Layout file B. Property file C. Java source file D. Manifest file</p>	1	1	R
16	<p>What does the Layout.xml file contain?</p> <p>A. Orientations and layouts that specify what the display looks like B. The permissions required by the app C. The strings used in the app D. The code which is compiled to run the app</p>	1	2	U
17	<p>What will be the output of the following swift code?</p> <pre> class A{     func putvalue()     {         print(" class A method is called")     } }  class B : A {     override func putvalue()     {         super.putvalue()         print(" class B method is called")     } }  var b1 = B() </pre>	2	5	A

	b1.putvalue()  A. class A method is called class B method is called B. class B method is called class A method is called C. class B method is called D. Error			
18	Superview is having more space (area) compare to the safe area in IOS. A. True B. False	1	4	U
19	We can't use "where" with the switch case in swift. A. True B. False	1	5	R
	<b>Any 5</b>			
20	Create an Android application of Calculator. The UI consists of a TextView for displaying the result and 16 Buttons. (GUI, XML & Java file only)	7	2	C
21	How to use spinner in Android App? Explain with an example.	7	2	C
22	What is an intent? Differentiate between implicit and explicit intent? How to start activity using intent, Explain with implicit and explicit intent example.	7	2	U
23	Create an android application that will fetch temperature in Celsius and covert into Fahrenheit. (GUI, XML file & Java file only)	7	2	C
24	What is Parsing? explain XML parsing and JSON parsing with example.	7	3	U
25	Explain iPhone operating system architecture. Enlist the main features of the latest iOS.	7	4	R
26	Write an android application to create three activities and three buttons in the main activity which call the activities you created when the button is pressed. (GUI, XML & Java file only)	7	2	C
	<b>Any 3</b>			
27	What is android activity lifecycle? Explain the role of any two methods in detail.	5	2	U
28	Draw and explain Fragment lifecycle in android.	5	3	C
30	What is type casting in swift? Explain with example.	5	5	A
31	What is a Framework? Explain the MVC framework with an example.	5	4	U