

**COURSE PS05EMCA03 (Application Development for the Android Platform)** 

	Frida	y Novemb	er 2 <sup>nd</sup> 2018	
Tin	ne: 2:00 pm to 5:00 pm		Max. Marks:	70
Q-1	Choose the most appropriate option	for each qu	estion:	[8]
	Android is based on -	, ·		
	A) Linux compiler	-	Linux kernel	
	C) Modified Linux kernel	D)	None of these	
2.	,		supported programming language for Android	
	development?	,		
	A) Java	B)	Dalvik	
	C) Kotlin	D)	None of these	
3.	The mechanism for keeping Android	,		
	A) Boxing	В)	Wrapping	
	C) Unboxing	D)	Sandboxing	
4.	Which among the following generates			
	A) Adapter	<b>B</b> )	Context menu	
	C) ArrayList	D)	Cursor	
5.	Which of the following is not typically	ly defined in	XML files?	
	A) Layouts	В)	Menus	
	C) Strings	D)	Drawables	
6.	Which is the preferred unit for specif	ying sizes of	views in Android?	
	A) dp	B)	px	
	C) pt	D)	None of these	
7.	Which of the following is not declare	d in the And	roid manifest file?	
	A) Application icon id	<b>B</b> )	SQLiteOpenHelper	
	C) Proodcast receiver	D)	Activity	
8	Which tag is used in the Android man	nifest file for	declaring the requirement of permissions?	
0.	A) <seeks-permission></seeks-permission>	B)	<needs-permission></needs-permission>	
	C) <uses-permission></uses-permission>	D)	<pre><permission></permission></pre>	
	C) subob pormisers			
7_2	Answer the following questions (A	ny Seven):		[14]
2-2	Name the database management system	em and the g	raphics library used by Android.	
1.	Name the database management syst	ח		
2.	Write the full forms of ADT and AV	<b>υ.</b> 	Is and suban door it stan being on the tan of t	the
3.	When is an activity on the top of the	activity stac	ck and when does it stop being on the top of t	iiic
	stack?		1.0	
4.	What are the lifetimes in the Android	l activity life	cycle?	
5	Why should we store all strings that i	may potentia	ally be visible for the user in the strings resour	rce
	CI OII	ned in the st	ring resource?	
	What is levent inflation? Which met	nod is used to	o get a reference to a view defined in a layout	t?
0.	what is layout illiation: which men			የ.ፕ.ሉን
		(1)		የጥያ)
				~ 1 of 2

7.	Write a statement for logging a message from application code so that it appears in Logcat.	P
8.	What are the possible time duration values for which a toast is displayed?	
9.	Which events are invoked when a menu is created and when a menu item is clicked?	
Q-3		
A.	Draw a figure showing the Android activity lifecycle. Describe each event in the lifecycle in	[6]
В.	short. List the types of resources in Android. What are the advantages of using resources?	[6]
	OR	
В.	Why do we need to save and restore state in Android activities? Write the techniques used for saving and restoring activity state. Also write when Android does it automatically for us.	[6]
Q-4		
-	Write a short note on the Activity class and its use in Android.	[6]
	Explain database access in Android.	[6]
	OR	
В.	Explain content providers and broadcast receivers in Android.	[6]
0-5		[()
Α.	Why should we make network request from a separate thread? Describe the class commonly used	[0]
	for making such a background request.  Write a short note on geolocation, positioning and location aware apps in Android.	[6]
	OP	
В.	Explain in detail how we can show a list of items on the screen using ListView and other classes.	[6]
Q-6	W. See about notes on intents in Android	[6]
Α.	Write a short notes on intents in Android. Explain how can we generate a notification, send an SMS and check for availability of network	[6]
В.	Explain now can we generate a notification, sens an expressivity	
	connectivity.	10
В.	Explain event handling and the use of the UI thread in Android. List the common events handled by Android apps.	[O
	by Android appo	



COURSE PS05EMCA03 (Application Development for the Android Platform)

Thursday 26th April 2018

Time: 11:00 am to 2:00 pm		Max. Marks:	70
Q-1 Choose the most appropriate option for	each gu	estion:	[8]
1. Which virtual machine is <i>not</i> used by any	version (	of Android?	
· · · · · · · · · · · · · · · · · · ·	B)	Dalvik virtual machine	
A) ART	DY	None of these	
<ul><li>C) JVM</li><li>2. An Android application is only visible to t</li></ul>			
	B)	onResume() and onStop()	
<ul><li>A) onStart() and onStop()</li><li>C) onResume() and onRestart()</li></ul>	D)	onStart() and onPause()	
<ul><li>C) onResume() and onRestart()</li><li>3. Which of the following represents a screen</li></ul>			-
	B)	Activity	
<ul><li>A) Page</li><li>C) Layout</li></ul>	Ď)	None of these	
4. The sizes of views are determined by -			
A) Activity	<b>B</b> )	View itself	
C) Page	D)	Layout	
5. Which of the following is <b>not</b> a resource for	older?		
A) layout	В)	values	•
Company of the second of the s	(رائے	strings	
6. Which database management system is use	ed on the	Android platform?	
A) SQLight	B	SQLILE	
C) SOI ait	D)	SQLaite	
7. Which of the following class is used to play	y audio?	Dievos	
A) AudioPlayer	D)	Player MusicPlayer	
C) M. Ha Diagram	D)	who heakground?	
8. Which class is used to make a network requ	uest in u	HTTPGetRequest	
A) AsyncTask	B) D)	HTTPTask	
C) AsyncGetTask	D)	III II Iusk	
(A may Cox	wan).		[14]
2-2 Answer the following questions (Any Sev 1. Give at least two examples of Android v	venj.	with version number version name and API	
1. Give at least two examples of Android v	ersions	With version number, version many	
level.	. Jacid or	onligations?	
2. Which IDEs can be used for developing Ar	naroia ap	ppications:	
the standard of using resolutions	5 (		
4. Describe the Android permissions related to	o access	ing secondary storage.	
and AUI forms of AVD and AUI.		·	
6. What is the use of accelerometers and e-col	mpass in	a smart phone?	
6. What is the use of accelerometers and o con			
7. List animation techniques in Android.			

9.	Differentiate between GPS and A-GPS.	
Q-3		
1	Write a short note on the history of the Android operating system. List its key characteristics	[6]
B.	Write a short note on Android resources.	[6]
	OR	
B	Explain the Android activity life cycle with the help of a figure.	[6]
Q-4		[6]
$\frac{A_i}{B_i}$	Explain any two Android layouts.  Explain the development of multiple-screen Android applications.	[6]
	OR	[6]
В.	Write a short note on intents.	103
Q-5		[6]
-	Explain database access in Android.	[6]
Ç Zı.	Explain how to access data from a server in an Android app.	
	UK	[6]
В.	Explain the use of menus and context menus in Android.	
		[6]
Q-6	Cul - Android manifest file.	[6]
A.	List the common contents of the Android manifest file.  List the common contents of the Android manifest file.  Respectively.	101
В.	List the permissions felated to Sivis, go OR	[6]
В.	Explain the use of adapters with an example.	
	Thomasin yugang.	

8. Write a short code snippet for sending a text message.

COURSE PS05EMCA03 (Application Development for the Android Platform)
Wednesday November 15<sup>th</sup> 2017

Tim	ne: 10:00 am to 1:00 pm		Max. Marks: 70	
0.1	Choose the most appropriate option for ea	ch auc	stion: [8]	
	What does a .dex file contain?	on que	•	,
ι.		B)	Dalvik bytecode	
	A) Dalvik virtual machine	D)	None of these-	
2	<ul> <li>C) Dalvik source code</li> <li>Android applications have little control over</li> </ul>			-
2.		B)	Data	
	A) Code C) Life cycle	D)	Foreground Activity.	
3	C) Life cycle Which of the following is <i>not</i> an Android la	,		
Э.	A) Vertical layout.	B)	Relative layout	
	C) Table layout	D)	None of these	
4	Which of the following usually represents a	n actior	n to be performed?	
	A) Broadcast receiver	B)	Content provider	
	C) Main activity	D)	Intent.	
5.	Which of the following resource folder will	be use	d on a tablet in landscape mode?	
	A) layout-land-large	B) ·	large-lang-layout	
	C) layout-large-land.	D)	land-large-layout	
6.	Which of the following corresponds to a wh	iere cla	use in a query?	
	A) Selection.	В)	Projection	
	C) Protection	D) ·	Cursor	-
7.	Which of the following is <i>not</i> a built-in act	ion in t	he Intent class?	
	A) ACTION_VIEW	D)	ACTION_SITO W.	
	CONTRACT FOR	D)	ACTION_DIAL	
8.	Which of the following class is used to per	form o	perations in the background?	
0.	A) HTTPRequest	D)	III II Gentedaest	
	C) AsyncGetTask	D)	AsyncTask.	
				[14
0-2	Answer the following questions (Any Se	ven):		[14]
	ifically decigne	d tor sa	aving and restoring activity state?	
l.				
2.	Write the sequence of events that the in	hen fir	nishes (and the current activity is not killed).	
	comes in front of the current activity and to			
3.	What are the advantages of using resource	. 14.	ining the current location of the device.	
4.	Describe the Android permissions related	to obta	lining the current location of the devel	
_	will a see the two wave of capturing an im	age us	ing the carriera:	
	List the motion and orientation sensors co	mmon	ly available in mobile devices.	
6.	List the motion and orientation series			
7.	List animation techniques in Android.			
	the second secon		The second secon	

8. 9.	Write a short code snippet for sending a text message. Give any two examples of using getSystemService().	
A. B.	Answer the following questions:  Explain the Android activity life cycle with the help of a figure.  Write the steps for creating a new Android Studio project. Write a skeleton program for an Android activity.  OR	[6] [6]
В.	Write a short note on using menus in an Android application including necessary event handlers.	[6]
A.	Answer the following questions:  Explain different types of resources used in Android along with the advantages of their use.  Write a short note on intents.	[6]
	OR Write short notes on content providers and broadcast receivers.	[6]
A. B.	Answer the following questions:  Explain database access in Android.  Write the code snippets to play audio and video in an Android application.  OR	[6] [6]
В.	Write a program to make a GET request to a web server in the background.	
Q-6 A. B.	Answer the following questions: List the common contents of the Android manifest file.  Explain how to test camera access, location access, telephony applications and SMS sending in the emulator.	[6 [6

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need to be created.

B. Explain the use of a ListView with the data stored in an ArrayList. Describe the resources that [6]

### COURSE PS05EMCA03 (APPLICATION DEVELOPMENT FOR THE ANDROID PLATFORM)

Saturday November 28th 2015

7	im	ne: 11:00 am to 2:00 pm	Max. Marks: 7	0
		Choose the most appropriate option for each que	estion:	[8]
7-	· A	Which of the following is a solid Android API level		
		Which of the following is a valid Android API level	5.1	
		A) 5	None of these	
		C) Lollipop Which virtual machine was used with Android till t		
)		<b>D</b> \	Dalvik	
		A) Davin	Dalvic	
		Which of the following is not an Android view?		
		A) TextView B)	TextBox	
		C) ToggleButton D)	lmageButton	
	d.	Which of the following layouts can have horizontal	or vertical orientation?	
	٦,	A) RelativeLayout B)	GridLayout	
		C) TableLayout D)	LinearLayout	
	5.	Which of the following represents a screen on the A	android device?	
		A) Screen B)	FORM	
		C) Activity D)	Action	
	6.	Which of the following is a link between a data mo	dei and a Listy lew?	
		A) ContentProvider B)	SQLiteOpenHelper Adapter	
		C) LoaderManager D)		
	ή.	Which of the following sensor can be used to acces  A) Magnetometer B)	Accelerometer	
		A) Magnetonicet	Proximity sensor	
1				
	3.	Use of which of the following may incur data charges  B)	GPS	
		A) A-0.53	None of these	
		C) LocationListener D)		
	. 7	Answer the following questions (Any Seven):		[14]
1,2	2	Write the full forms of ADT and APK.		
	j.	What is layout inflation? Which kind of files are in	fiated by an inflater?	
	2.	What is layout inflation? Which kind of the are in	evelonment	
	3.	Give reasons for using resources in Android app de	, vero /mene.	
	4.	What are broadcast receivers? What is their use?	the anding overthandlers that run on the Hi	
	5.	What is the UI thread? What care should be taken	when coding event handlers that run on the Or	
		thread?		
	6.	What is SQLite? What advantages does it offer?		

7.	Write a code snippet to play an audio.	
8.	Name any two animation techniques in Android. Explain in one or two sentences each.	
	Write a code snippet for initiating a telephone call.	
Q-3	Answer the following questions:	
A.	Explain in detail the process of developing an Android application using Android Studio or Eclipse.	[6]
В.	Explain the contents of the Android manifest file.	[6]
	OR	
В.	Explain different layouts in Android.	[6]
Q-4	Answer the following questions:	
A.	Write a short note on the use of intents in Android.	[6]
В.	Write a short note on writing Android apps that adapt to different screen sizes and locales (languages).	[6]
	OR	
В.	Explain the use of menus, context menus and action bar in brief.	[6]
Q-5	Answer the following questions:	
A.	Explain database access in Android.	[6]
	Explain content providers in Android.	[6]
	OR	
В.	Explain the different technologies for obtaining the current location of the mobile device. Give advantages and disadvantages of each.	[6]

OR

Q-6 Answer the following questions:

B. Expiain motion tweening in Android.

A. Explain the sending and receiving of text messages (SMS).

B. Explain the use of the AsyncTask class in the Android SDK.

[6] [6]

[6]

G. H. Patel P. G. Department of Computer Science and Technology
Master of Computer Applications (MCA)

MCA-V Internal Examinations

EMCA03 Application Development for the Android Platform Monday, 22<sup>nd</sup> September, 2014

Гіте: 2:0	00 pm to 3:30 pm Max. Marks:	30
1. W ev A) C) 2. W A) C) 3. W A) C) 4. W A)	Which of the following events cannot immediately follow the onPause vent in the lifecycle of an activity?  OnStart  B) onResume OnCreate D) onStop Which graphics library is used by Android? OpenGL Which of the following classes allows data to be accessed through URIs? OpenGL Which of the following classes allows data to be accessed through URIs? OpenGL Content Provider Content	[4]
4. W	Answer the following questions (Any Three):  Vrite a code snippet showing how to use an ArrayAdapter with a istView.  ist the main criteria on which an intent filter usually filters intents.  Vrite a code snippet for setting a label in a TextView at run time.  Vrite code snippets to show and hide a TextView.	[6]
A. W	Ville Sample code to contenting a sun 5	[5] [5]
B. W		[5]
A. E	re built, installed and executed. Describe the use of XML files in	[5] [5]
B. D	escribe the process of developing apps that adapt to different screen in its screen is screen in the screen in the screen is screen in the screen in the screen is screen in the	[5]

### G. H. Patel P. G. Department of Computer Science and Technology Master of Computer Applications (MCA)

### MCA-V Internal Examinations

### PS05EMCA03 Application Development for the Android Platform Tuesday, 10<sup>th</sup> September, 2013

Time:	11:0	0 am to 12:30 pm Max. N	Marks: 30
Q-1	Ar i. ii. iii. iv. v.	Android is a product of which alliance? Which virtual machine is used by Android? Which database management system is used by Android? Which graphics library is used by Android? Which is the SDK level of the latest released version of Android?	ef
Q-2 a.	Exp	plain the concept and use of intents in Android with sample code. Also giv the example of passing data via an intent and retrieving the same in th	re [4] e
b.	rec	reiving activity.  swer ANY TWO from the following:  Write a note on the Activity Lifecycle in Android.  Explain in brief what services, content providers and broadcast receiver are.  Give an outline of how to run code asynchronously using AsyncTask. What should anyone want to do that?	[6]
Q-3	i. ii. iii.	What is a POJO class? What should it contain?  How do we obtain a reference to an EditText declared in a layout? How do we assign its text contents to a string variable?  Which method is called when a menu item is selected? Write a show sample of it.  How do we use a context menu in our activity?  List the main contents of an SQLiteOpenHelper class.	

vii. What are the reasons for the use of resources in Android?

vi. What are the advantages of using LoaderManager and CursorLoader?

PS05E	Master of Computer Applications (MCA)  MCA-V Internal Examinations (Retest)  MCA03 Application Development for the Android Plat  Friday, 11th October, 2013	
Time: 12	:15 pm to 1:45 pm Max. Marks: 30	
С.	Write key characteristics of the Android platform. Write a note on the Android development platform. Discuss the different components used in developing an Android application using Eclipse. Write sample code for invoking one activity from another passing some data.	[4] [3] [3]
C.	Write a note on the Activity Lifecycle in Android.  Explain different types of resources in Android.  Answer the following questions in brief (ANY FIVE):	[3] [3] [10]
	<ul> <li>i. What is an adapter? What does it do?</li> <li>ii. Where do we declare the permissions needed by our application? Give an example of a permission.</li> <li>iii. How do we use a context menu in our activity?</li> <li>iv. Which three methods must be implemented for</li> </ul>	
	<ul> <li>implementing the LoaderCallbacks interface?</li> <li>v. What is AsyncTask? What is its use?</li> <li>vi. Which classes from the Android SDK do we use for making HTTP requests?</li> </ul>	

G. H. Patel P. G. Department of Computer Science and Technology