SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGEMENT STUDIES.
(AUTONOMOUS)
CHITTOOR

MCA DEPARTMENT

QUESTION BANK

20MCA214

For

MOBILE APPLICATION USING ANDROID (20MCA214)

Regulation – 2020

Academic Year 2020 – 21

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QUESTIONS

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Subject Name : Mobile Application Using Android **Academic Year: 2020-21**

Subject Code: 18MCA313 **Year & Sem :III & I**

UNIT -I				
Introduction Background, Android: An Open platform for mobile development, Native Android Applications, Android SDK Features, Open Handset Alliance, Why Develop for Mobile and Android, Development Framework, Types of Android Applications, Developing for Mobile and Embedded Devices, Android Development Tools.				
Part –A		**CO**	**BT**	**PO**
1.	Define Android	CO1	L1	PO1
2.	List out Native Android applications	CO1	L1	PO1
3.	List out the Proprietary Google Mobile Applications.	CO1	L1	PO1
4.	Name few example background services of Android Mobile Phone.	CO1	L1	PO1
5.	Define DVM	CO1	L1	PO1
6.	Write a short note on shared data and Inter-Application Communication	CO1	L1	PO1
7.	What is Cloud to Device messaging(C2DM)	CO1	L1	PO1
8.	What is Open Handset Alliance?	CO1	L1	PO1
9	Identify why develop for Android	CO1	L1	PO1,PO2
10	Illustrate the steps to creating an Android Virtual Device	CO1	L3	PO1
11	How android application Ensures Data Freshness	CO1	L1	PO1
12	List out types of Android Applications.	CO1	L1	PO1
13	Summarize hardware-imposed design considerations	CO1	L2	PO1
14	List out Android development tools.	CO1	L1	PO1
15	Outline Android Debug Bridge briefly.	CO1	L3	PO1
Part-B				
1	Discuss Android an Open Platform for Mobile Development	CO1	L2	PO1,PO2
2	Explain Android SDK Features	CO1	L2	PO1,PO2
3	Describe the Open Handset Alliances and Android Development Framework.	CO1	L2	PO1,PO2
4	Explain Why Develop for Mobile and What Android has that other platforms don't have.	CO1	L2	PO1,PO2
5	Describe Dalvik Virtual Machine and Android Application Architecture	CO1	L2	PO1,PO2
6	Categorize and explain each type of Android Applications	CO1	L4	PO1,PO2
7	Explain Android Development Tools	CO1	L2	PO1,PO2
8	Illustrate Android Software Stack with neat diagram.	CO1	L3	PO1,PO2
9	What are the factors to be considered while developing applications for mobile and embedded devices ? Explain.	CO1	L3	PO1,PO2
10	Explain the need of Android Virtual Device Manager and SDK Manger.	CO1	L2	PO1,PO2
UNIT- II				
Creating Applications Application Manifest File, Using Manifest Editor , Externalizing Resources, Android Application Life Cycle, Application Priority and its States, Android Application Class, Android Activities.				

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	Part - A	CO	BT	PO
1	What are the building blocks of Android Applications?	CO2	L1	PO1
2	List out sub node tags in android manifest xml file.	CO2	L1	PO1
3	Write a short note on Android Manifest file.	CO2	L1	PO1
4	What is Layout?	CO2	L1	PO1
5	Categorize Android Animations	CO2	L4	PO1
6	Write short note on Runtime Configuration Changes	CO2	L1	PO1
7	Define Android Application Classes	CO2	L1	PO1
8	Outline Android Activity Stack	CO2	L4	PO1
9	Write short note on Active (foreground) Process.	CO2	L1	PO1
10	List out Activity States in Android	CO2	L1	PO1
11	List out Activity Life Times	CO2	L1	PO1
12	Define Android Activity Classes	CO2	L1	PO1
13	Write short note on Lint Tool.	CO2	L1	PO1,PO5
	Part - B			
1	Describe Application Manifest File in detail	CO2	L2	PO1,PO2
2	Illustrate various qualifiers that can be used to create resources for different Languages and Hardware	CO2	L3	PO1,PO2
3	(a) Explain about Externalizing the Resources	CO2	L2	PO1,PO2
	(b) How Resources are referenced within the Resources	CO2	L2	PO1,PO2
4	Describe Android Application Life Cycle	CO2	L2	PO1,PO2
5	Discuss Application Priority and its Process States	CO2	L2	PO1,PO2
6	(a) Describe about Android Application Class	CO2	L2	PO1,PO2
	(b) Demonstrate how Activity is created.	CO2	L3	PO1,PO2
7	Describe Android Activities	CO2	L2	PO1,PO2
8	Discuss Android Activity Lifecycle	CO2	L2	PO1,PO2
9	Explain Activity Stack and Activity States	CO2	L2	PO1,PO2
10	Summarize Activity lifetimes in terms of the Activity states	CO2	L2	PO1,PO2
	UNIT- III			
	Building User Interfaces & Databases Fundamental Android UI Design, Layouts, Fragments, Creating new Views, Adaptors, Android Database, SQLite, Content Values and Cursors, Working with SQLite Databases.			
	Part - A	**CO**	**BT**	**PO**
1	Paraphrase User Interface Design	CO3	L2	PO1,PO2
2	Describe Device Independent User Interface	CO3	L1	PO1
3	Classify the types of Layouts	CO3	L2	PO1,PO2
4	How to avoid using Excessive Views in the layout design.	CO3	L1	PO1
5	Define Fragments	CO3	L1	PO1
6	List out and write about Android Fragment Classes.	CO3	L1	PO1
7	Define SQLite Database	CO3	L1	PO1
8	Define Animating Fragment Transactions	CO3	L1	PO1

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9	What is widget tool Box	CO3	L1	PO1
10	Demonstrate creating new views	CO3	L3	PO1
11	Write short note on Adaptors.	CO3	L1	PO1
12	Differentiate SQL and SQLite	CO3	L2	PO1,PO2
13	Illustrate simple Cursor Adapter	CO3	L3	PO1
14	Define Cursor Loader and list out Cursor Loader Callbacks.	CO3	L1	PO1
15	Define Content Resolver.	CO3	L1	PO1
	Part – B			
1	Explain Fundamental Android UI Design	CO3	L2	PO1,PO2
2	Explain in detail about Fragments	CO3	L2	PO1,PO2
3	Explain about Layouts	CO3	L2	PO1,PO2
4	Describe the concept of Create New Views	CO3	L2	PO1,PO2
5	Discuss about Adapters	CO3	L2	PO1,PO2
6	Demonstrate creation of ToDo List using Array Adapter	CO3	L3	PO1,PO2
7	Explain briefly about android Database	CO3	L2	PO1,PO2
8	Explain Content Values and Cursors	CO3	L2	PO1,PO2
9	Explain working with SQlite Databases	CO3	L2	PO1,PO2
10	Demonstrate creation of SQLite Databases with an example	CO3	L3	PO1,PO2
	UNIT-IV			
	Content Providers & Services Creating & Using Content Providers, Adding search to your Application, Native Android Content Provider, Introducing services, Using Background Threads, Using Alarms.			
	Part- A	**CO**	**BT**	**PO**
1	Define Content Provider Transaction	CO4	L1	PO1
2	Identify the uses of Content Provider	CO4	L1	PO1
3	Summarize the Search View Widgets	CO4	L2	PO1
4	Define Loader and Intent services	CO4	L1	PO1
5	List out types of Native Content Providers	CO4	L1	PO1
6	List out basic Android services	CO4	L1	PO1
7	Write short note on Creating Services.	CO4	L1	PO1
8	List out the constants used to control the restart behavior of Services.	CO4	L1	PO1
9	Define Background Thread	CO4	L1	PO1
10	Write short note on AsynkTask class.	CO4	L1	PO1
11	Define Intent Services.	CO4	L1	PO1
12	List out Alarm types that an Android Studio supports.	CO4	L2	PO1,PO2
13	List Alarm Manager constants to set repeating Alarms.	CO4	L1	PO1
	Part – B			
1	Discuss Creating and Using of Content Providers	CO4	L2	PO1,PO2
2	Explain How Adding, deleting and updating content can be done using Content Providers.	CO4	L2	PO1,PO2
3	Explain querying for content using Cursor Loader.	CO4	L2	PO1,PO2
4	Discuss how to add Search to your Application	CO4	L2	PO1,PO2
5	Explain Native Android Content Providers	CO4	L2	PO1,PO2

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6	Explain about importance of Services in the Android	CO4	L2	PO1,PO2
7	Illustrate how to bind the Services to the Activities.	CO4	L3	PO1,PO2
8	Explain about Background Threads	CO4	L2	PO1,PO2
9	Discuss how to create and use Alarms in the mobile app.	CO4	L2	PO1,PO2
10	Demonstrate simple Alarm App by creating Source Code	CO4	L3	PO1,PO2
	UNIT- V			
	Android Components Action Bar, Menus & Action Bar Action Items, Dialogs, Notification, Designing, Collection view Widgets, Live Folders, Quick Search Box, Creating Application Widgets.			
	Part - A	**CO**	**BT**	**PO**
1	Define Action Bar.	CO5	L1	PO1
2	List out categories of application navigation behavior through Action Bar	CO5	L1	PO1
3	Write short note on expanded menu and overflow menu.	CO5	L1	PO1
4	Differentiate Menus with Action Bar	CO5	L2	PO1,PO2
5	List out Menu item options that Android supports.	CO5	L1	PO1
6	Differentiate between Context Menus and Pop-up Menus	CO5	L2	PO1,PO2
7	Define Alert Dialogue Class	CO5	L1	PO1
8	Summarize three ways in which Dialog in Android is implemented.	CO5	L2	PO1
9	Illustrate how to use Toasts in worker Threads	CO5	L3	PO1
10	Define Notification Manager	CO5	L1	PO1
11	List out types of Notifications	CO5	L1	PO1
12	Define App Widget	CO5	L1	PO1
13	List out App Widget types	CO5	L1	PO1
	Part – B			
1	Discuss about Action Bar	CO5	L2	PO1,PO2
2	Explain Menus and Action Bar	CO5	L2	PO1,PO2
3	Explain menu creation in detail.	CO5	L2	PO1,PO2
4	Discuss about Action Lines	CO5	L2	PO1,PO2
5	Explain the ways in which Dialogues can be implemented	CO5	L2	PO1,PO2
6	Describe how Notification is generated	CO5	L3	PO1,PO2
7	Illustrate Creation of Application Widgets	CO5	L2	PO1,PO2
8	Discuss designing of Collection View Widgets	CO5	L2	PO1,PO2
9	Discuss about Live Folders	CO5	L2	PO1,PO2
10	Discuss about Quick Search Box	CO5	L2	PO1,PO2
11	Explain Android Application Widgets in detail	CO5	L2	PO1,PO2