



Second Semester MCA Degree Examination, June/July 2024 Mobile Application Development

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	What is Mobile Computing? Explain important mobile computing functionalities.	10	L1	CO1
	b.	With a neat diagram, explain GSM architecture.	10	L2	CO1
OR					
Q.2	a.	Discuss the different mobile services provided by mobile computing.	10	L2	CO1
	b.	Discuss the merits and demerits of smartphone operating system.	10	L2	CO1
Module – 2					
Q.3	a.	Discuss the android software stack.	10	L2	CO2
	b.	Illustrate the different components of android application design.	10	L2	CO2
OR					
Q.4	a.	Explain the process of installing Android SDK.	06	L2	CO2
	b.	Write the steps to create Android Virtual Device (AVD).	06	L1	CO2
	c.	Describe the steps required to develop the “Hello World” application using source code.	08	L2	CO2
Module – 3					
Q.5	a.	Define Intent. Develop an android application to simple calculator to read 2 numbers and perform addition and subtraction.	10	L1 L3	CO3
	b.	Illustrate the different building blocks of android application design.	10	L2	CO3
OR					
Q.6	a.	Explain the use of different layout type with code snippets wherever possible.	10	L2	CO3
	b.	Describe the process of creating animation with android graphics API.	10	L2	CO3
Module – 4					
Q.7	a.	With and XML code, demonstrate the creation of user interface making use of commonly used view types.	10	L3	CO4
	b.	Develop an android application media player. Discuss the use of layout types used in application design.	10	L3	CO4
OR					
Q.8	a.	Discuss the use of Dialogs displaying information in android application.	10	L2	CO4
	b.	Develop an android application to access internet and display web pages in android application.	10	L3	CO4
Module – 5					
Q.9	a.	Demonstrate the use of maps in Android application and develop an application to mark the pointer to Sydney, Australia using maps.	10	L2	CO5
	b.	Develop an android application to send an email text message.	10	L3	CO5
OR					
Q.10	a.	Explain context providers. How they are useful in application development in Android.	10	L2	CO5
	b.	Explain the steps required to create an APK file and publish the application into play stack.	10	L2	CO5
