

# CBCS SCHEME



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22MCA263

## Second Semester MCA Degree Examination, Dec.2023/Jan.2024 Mobile Application Development

Time: 3 hrs.

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.	Explain GSM Architecture with a neat diagram.	10	L1	CO1
	b.	What is Handover? Explain different possible handover scenarios of GSM.	10	L1	CO1
<b>OR</b>					
Q.2	a.	Explain the significance of Radio Interface in GSM.	10	L1	CO1
	b.	List and explain the applications of smart phone.	10	L1	CO1
<b>Module – 2</b>					
Q.3	a.	Explain the features of android 4.1 Jelly Bean SDK.	10	L1	CO2
	b.	Discuss android software stack with a neat diagram.	10	L1	CO2
<b>OR</b>					
Q.4	a.	Develop a mobile application to create a Text view and change the attributes using XML and Java file.	10	L3	CO4
	b.	What is AVD? Illustrate creation of AVD by explaining the fields of AVD.	10	L3	CO4
<b>Module – 3</b>					
Q.5	a.	Differentiate between table layout and grid layout.	08	L1	CO1
	b.	What is linear layout? Explain its attributes.	06	L3	CO3
	c.	Explain any two kinds of android components.	06	L1	CO3
<b>OR</b>					
Q.6	a.	Develop a mobile application to display two images using frame layout and switch the images when clicked.	10	L3	CO3
	b.	Demonstrate drawing graphics in android using Graphics API.	10	L3	CO3
<b>Module – 4</b>					
Q.7	a.	Define fragment. Explain the life cycle of fragment.	10	L1	CO2
	b.	Develop a mobile application to create a list of programming subjects using spinner view and display the item selected by the user.	10	L3	CO4
<b>OR</b>					
Q.8	a.	What is the use of Data Picker dialog? Demonstrate with an example how it is handled in Android.	10	L3	CO2
	b.	Illustrate with an example how to play video in an android application.	10	L3	CO4
<b>Module – 5</b>					
Q.9	a.	How do you create a Google Map based Application?	10	L3	CO3
	b.	What is Broadcast Receivers? Explain different aspect of Broadcast Receivers.	10	L3	CO3
<b>OR</b>					
Q.10	a.	Discuss APK file deployment in detail and steps involved in publishing android application.	10	L2	CO5
	b.	What are different methods used to create a service? Explain with an example.	10	L3	CO3

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