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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Fifth Semester, Master of Computer Applications (MCA) Semester End Examination; February - 2022 Mobile Application Development

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

1	a.	Define Android. Discuss the advantages of Android.	10
	b.	Explain .apk and .dex extension.	5
	c.	List and explain Android SDK features.	5
2	a.	List and describe the features available on Android.	10
	b.	Explain the advantages and disadvantages of Dalvik Virtual Machine.	5
	c.	Outline Android software stack with a neat diagram	5
		UNIT - II	
3	a.	Define activity. Explain the life cycle of an activity.	10
	b.	Outline the details of an Android emulator, also explain the Android development tool used	10
		in Eclipse IDE.	10
4	a.	Explain various types of Android applications.	10
	b.	Describe creating resource for different languages and hardware.	10
		UNIT - III	
5	a.	Define intents and discuss the use of them in application devolopment. Also explain any	10
		five Native Android actions.	10
	b.	Illustrate launch activities using intents.	10
6	a.	Define Fragments. Explain the life cycle of Fragments.	10
	b.	Discuss any five Android widget toolbox controls.	10
		UNIT - IV	
7	a.	Discuss insertion, updation and deletion of rows with respect to SQLite.	10
	b.	Discuss the uses of environmental sensors.	5
	c.	Explain Barometer sensors.	5
8	a.	List and describe any five Android sensors.	10
	b.	Discuss the following concepts:	
		i) Registering content provider	10
		ii) Storing files in a content provider	

P18MCA544	Page No 2
UNIT - V	
9 a. List and explain any five parameters used for camera setting.	10
b. Explain the following:	
i) Location privacy	10
ii) Finding the last known location	
10 a. Explain the procedure to find the current location in Android application.	10
b. Explain forward and reverse geo coding.	10
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