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

(An Autonomous Institution affiliated to VTU, Belagavi)

Third Semester, Master of Computer Applications (MCA)

Semester End Examination; February / March - 2022

Mobile Application Development

Time: 3 hrs *Max. Marks: 100*

Course Outcomes

The Students will be able to:

CO1: Identify *the Fundamentals of Mobile Application Development.*

CO2: Create *simple android applications.*

CO3: Design *and develop the user interface that leverage evolving mobile device capabilities.*

CO4: Construct *of mobile application using android SQlite and content providers and categorize the mobile sensors.*

CO5: Understand *the mobile applications based on maps, location based, audio, video and camera.*

Note: I) *Answer any* ***FIVE*** *full questions, selecting* ***ONE*** *full question from each unit.*

II) *Any* ***THREE*** *units will have internal choice and remaining* ***TWO*** *unit questions are compulsory.*

III) *Each unit carries 20 marks.*

Q. No.	Questions	Marks	BLs	COs	POs
	UNIT - I				
1 a.	How Android is different from other mobile development platforms?	5	L5	CO1	PO5
b.	With a neat block diagram, explain the Android software stack.	10	L2	CO1	PO5
c.	What is Android? What android Isn't?	5	L1	CO1	PO1
	UNIT - II				
2 a.	List any five factors to be considered, while developing software for mobile application or embedded devices. Explain.	5	L1	CO2	PO3
b.	What are the guidelines to be considered, while developing an Android application?	5	L1	CO1	PO1
c.	List and explain the different types of Android applications.	10	L2	CO1	PO1
	UNIT - III				
3 a.	What are layout managers? List and briefly explain four commonly used layout classes.	5	L2	CO2	PO5
b.	What are fragments? How do you use fragment transactions?	5	L5	CO2	PO1
c.	What are intents? Why do you use intents?	10	L2	CO2	PO1
	OR				
3 d.	With a neat block diagram, explain the lifecycle of the fragment.	10	L2	CO2	PO1
e.	How do you optimize layouts?	10	L3	CO2	PO2
	UNIT - IV				
4 a.	How do you use add, delete and update methods on the content resolver to perform transactions?	10	L5	CO3	PO3
b.	Explain insert, delete, update method of the SQLite database class.	10	L2	CO4	PO3
	OR				

Contd…2

c.	List and explain any five android supported sensors.	10	L2	CO5	PO5
d.	How do you detect the acceleration changes?	5	L5	CO5	PO5
c.	Discuss briefly how sensors are monitored?	5	L2	CO5	PO5

UNIT - V

5 a.	How do you translate between street address and map coordinates?	10	L2	CO5	PO3
b.	What are the ways to initialize the audio content for playback?	5	L3	CO5	PO3
c.	What are the different ways to add effects to audio?	5	L1	CO5	PO3

OR

5 d.	What are the different ways to record video?	10	L1	CO5	PO3
e.	How do you find your current location in an android application?	10	L6	CO5	PO3

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