

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***MCA DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025****Second Semester****Master of Computer Applications****MC4204/PMCT2424 - Mobile Application Development****Regulations – 2021/2024****Duration : 3 Hrs****Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	Specify the factors to consider when selecting a development environment for android app development.	L2	1	2
2.	Infer the primary purpose of using tools in mobile app development.	L2	1	2
3.	Why we need to build generic user interface?	L1	2	2
4.	Illustrate how voice XML is used in user interface design.	L2	2	2
5.	Can you list the purpose of using dynamic link libraries.	L1	3	2
6.	Interpret the role of Java API in mobile application.	L2	3	2
7.	Associate purpose of intent with activity of an applications.	L4	4	2
8.	Suggest any four ways to achieve security and avoid hacking in mobile app.	L2	4	2
9.	How notifications and alarms are used in application development?	L2	5	2
10.	Identify the methods of communication established between a service and activity.	L3	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a Access the various mobile applications development models and discuss their features with appropriate examples. Or	L4	1	16
	b Evaluate the selection of tools like IDEs, testing framework, Deployment tools used in mobile application development. How do they impact the software development lifecycle.	L4	1	16
12.	a Use gesture-based UI principles to redesign a traditional touchscreen interface for visually impaired users. Or	L3	2	16
	b Apply the concept of gesture-based UI in designing a responsive mobile app interface for a food ordering company.	L3	2	16
13.	a Experiment the workflow phases of mobile application development to shopping cart. Illustrate how each phase contributes to successful application delivery. Or	L3	3	16
	b Identify the roles of Resource Management concept in application design.	L3	3	16

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| 14. | a | With a neat diagram, Extend the performance of each components in Android Application Architecture and their significances. | L2 | 4 | 16 |
| Or | | | | | |
| | b | Can you elaborate the various challenges for smart phone mobile security? Write an android program to display the current location of a device in Google Map. | L2 | 4 | 16 |
| 15. | a | Interpret the architecture and working of a typical web based notification system. Determine the importance of client-side and server-side components. | L2 | 5 | 16 |
| Or | | | | | |
| | b | Illustrate the impact of location-based services on privacy and security. summarize the measures that can be implemented to safeguard user data. | L2 | 5 | 16 |