

Q.No	Question	Max. Marks	CO-Blooms Level	PO-PI Code
1.	List out the hardware frameworks for mobile application development.	02	CO1 - K1	3.2.1
2.	Mention the salient features of open source frameworks to develop mobile apps.	02	CO1 - K3	3.2.1
3.	Classify mobile frameworks which working on single code base principles.	02	CO1 - K3	3.1.1
4.	Write the key factors to differentiate the mobile and desktop applications.	02	CO1 - K4	3.1.1
5.	Mention the cross platform frameworks to develop mobile apps.	02	CO1 - K2	3.1.1
6.	Mention the key principles to design the Mobile User Interface.	02	CO2- K2	3.1.1
7.	How to differentiate figure and ground in the UI design.	02	CO2- K3	3.1.1
8.	Depict expandable menu with example.	02	CO2- K3	3.1.1
9.	Mention any 5 SDK versions available for Android?	02	CO3- K1	3.1.1
10.	List any 5 Android Platform version with their API Level.	02	CO3- K1	3.1.1
	PART - B (5 x 13 = 65 Marks)			
	Answer ALL Questions			
11(a)	Explain the Mobile evolution based on their mobile frameworks.	13	CO1 - K2	3.2.1
	(OR)			
	Explain the pros and cons of mobile web Vs Mobile apps with respect to the framework used.	13	CO1 - K4	3.1.1
	Write the mobile platforms available for developing open source mobile apps.	13	CO1 - K2	3.2.1
	(OR)			
	Describe the mobile frameworks for developing mobile application in single code base method.	13	CO1 - K3	3.2.1
	Explain in detail the design principles of UI for mobile application with features.	13	CO2 - K1	3.2.1
	(OR)			
	Describe the user information design patterns to display the database content in the list view with example.	13	CO2 - K1	3.1.1
13 (a)	Describe the design constraints for developing mobile application user interface.	13	CO2 - K1	3.1.1
	(OR)			
	Write the details about Android platform and explain the salient features with advantages compare to other platforms.	13	CO2 - K2	3.2.1
15 (a)	Draw the android architecture and explain the layers with their features.	13	CO3 - K2	3.1.1
	(OR)			
	Write the procedure to make the setup for android environment to develop android application.	13	CO3 - K3	3.1.1
	PART - C (1 x 15 = 15 Marks)			
	Answer ALL Questions			
15 (a)	Write the program to develop hello world app in android studio and configure to run in mobile platforms.	15	CO3 - K3	3.2.1
	(OR)			
	Write the program to develop current location mapping using google map service application in android studio.	15	CO3 - K3	3.3.1

Time: 3 hours

PART - A (10 x 2 = 20 Marks)

Answer ALL Questions

Q.No	Question	CO-Blooms Level	Max. Marks	PO-PI Code
1.	Differentiate Activities from Services.	CO3-K2	02	3.2.1
2.	Why and How to use the View in Android?	CO3-K2	02	3.2.1
3.	Distinguish between fragment and activity.	CO4- K2	02	3.1.1
4.	Mention the methods of shared preferences.	CO4- K1	02	3.1.1
5.	List the two types of Broadcast receiver.	CO4- K1	02	1.3.1
6.	Specify features of the content provider.	CO4-K2	02	1.3.1
7.	Define Metaphore.	CO5-K1	02	1.3.1
8.	Specify the uses of plugins in android?	CO5-K2	02	1.3.1
9.	List the pros of cross platform mobile App Development.	CO5-K2	02	3.1.1
10.	Mention the anatomy of IOS app.	CO5-K1	02	3.1.1

PART - B (5 x 13 = 65 Marks)

Answer ALL Questions

11 (a)	Explain Common Layouts used for mobile application development	CO3-K1	[13]	3.2.1
(OR)				
(b)	How to create AVDs? Explain the various types of android applications.	CO3-K2	[13]	3.1.1
12 (a)	Elaborate the different types of sensors with its methods in detail.	CO4 - K1	13	3.2.1
(OR)				
(b)	Explain about the services provided by Android in detail.	CQ4 - K2	13	3.2.1
13 (a)	Describe intent in detail and how intent is used when starting an activity.	CO4 - K1	13	3.2.1
(OR)				
(b)	Explain about notifications in android with an example program.	CO4- K2	13	1.3.1
14(a)	Write about the main programming language used by Apple for the OS and iOS operating systems	CO5 - K3	13	1.3.1
(OR)				
(b)	Explain the basics and features of windows phone in detail.	CO5 - K2	13	3.2.1
15 (a)	Write the features of iOS and Develop a simple Application for iOS in detail.	CO5 - K3	13	1.3.1
(OR)				
(b)	Write short notes on:	CO5 - K1	13	3.1.1
	i) Apple Phone basics ii) BlackBerry basics			

PART - C (1 x 15 = 15 Marks)

Answer ALL Questions

16 (a)	i) Explain the challenges when we use the location-based services. ii) Describe the procedure to connect our device to internet resources.	CO4- K2	15	3.2.1
(OR)				
(b)	Outline the Concepts of BlackBerry basics and develop simple application in BlackBerry.	CO5- K2	15	3.3.1

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