R	O	N	О.

Time

2

-

5

0

5

0

3

0

3

)

3

)

3

Э

3

7

2

2

2

7

2

2

2

-

3

2

)

2

)





: 3 hours

Total Marks : 100 Semester : IV

**Program Name : BCA** Course Name : Mobile Application Development using Android Course Code : SOC256 Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.		BL
(a)	What is mobile computing, and how does it differ from traditional computing?		1
(b)	What is the Android development environment?		1
(c)	What is the purpose of text-to-speech techniques in mobile applications?	CO 1	2
(d)	Discuss the concept of Intents in Android and their significance in inter-component	CO 1	1
(e)	Communication. Explain the difference between implicit and explicit intents? What are some considerations for designing multichannel and multimodal user interfaces?	CO 1	5
	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	B
Q. No 2	The second of th	CO 2	2
(a)	different wireless technologies available on Android devices and now mey can be different app development. Provide examples of scenarios where specific wireless technologies are		
(1)	used. How do you decide the scope of an Android app?	CO 2 CO 2	3
(b) (c)	Explain the concept of Android telephony and its significance in moone app development. Discuss the key telephony-related APIs available in the Android framework and how they can		2
	be utilized in app development. What is the role of graphics in Android user interfaces?	CO 2	2
(d) (e)	What are some multimedia features available in Android, and now can they be used in meeting	CO 2	3
	applications?		
	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	B
Q. No 3 (a)	Explain the process of installing the Android SDK and setting up the development	CO 3	2
• •	environment	CO 3	2
(b)	What is the application context in Android, and why is it important? Explain the anatomy of an Android application. Discuss the essential components that make	CO 3	2
(c)	Explain the anatomy of an Android application. Discuss the essential compensation providers. up an Android app, including activities, services, broadcast receivers, and content providers.	2	
	and what is the Android Manifest file and what is its purpose?	CO 3 CO 3	2
(d)	What is the Android Manifest file, and what is its purposed What are some design essentials for developing Android applications?		4
(e)	What are some design essentials for developing and the		
	Attempt Any Two Parts. Each Question Carries 10 Marks.	СО	В
). No 4	What are the key screen elements of an Android user interface, and now can any of	CO 4	4
(a)		CO 4	1
(b)	Discuss the significance of utilizing location information in motion apps and the dramad services APIs for location-based services. Provide examples of scenarios where location-based services		
	are essential in app development. Explain the importance of responsive design, consistency, and usability in creating a		1
(c)	successful user interface.		
		CO	B
No E	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO 5	4
. No 5	- t i the store involved in publishing an Android application to the Google 1 my store	CO 5	4
(a) (b)	Discuss the different types of resources that can be used in an Android application and them		
	the second sec	CO 5	1
(c)	significance in app development? Discuss the implications of these limits on Android application development, particularly in scenarios involving background tasks and battery optimization. Provide examples of strategies to comply with these limits while maintaining desired functionality.		
1			_

-----End of Paper--