B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Sixth Semester

Information Technology

20ITEL606 – MOBILE APPLICATION DEVELOPMENT WITH LABORATORY

Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	List the features of the android operating system.	2	K1	CO1
2.	Enlist the tools to develop android application.	2	K1	CO1
3.	Give the use of 'dp' measurement unit.	2	K1	CO2
4.	List the attributes of relative layouts.	2	K1	CO2
5.	Mention the description of different query strings.	2	K2	CO3
6.	Name some useful content providers.	2	K1	CO3
7.	Mention how to perform repeated tasks in service.	2	K1	CO5
8.	Write a short note about the onPostExecute() method.	2	K2	CO5
9.	Enlist the steps to publish the android application.	2	K1	CO6
10.	Give the use of the IntentService class.	2	K1	CO6

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Explain about the features of android and android architecture with a neat diagram.	13	K2	CO1
		OR			
	b)	Elaborate in detail about the procedure of installing android SDK tools and give the anatomy of android application.	13	K2	CO1
12.	a)	Discuss in detail about the activity states and lifecycle in android mobile application.	13	K2	CO2
		OR			
	b)	Describe about the different components of a screen in detail.	13	K2	CO2
13.	a)	Illustrate the two ways of registering the broadcast receiver in detail.	13	K3	CO3
		OR			
	b)	Describe how sharing data in android happens using a content provider.	13	K2	CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12625**

14. a) Elaborate how the communication was established between a service & activity.   *13*   *K2*   *CO5*

<div align="center">**OR**</div>

b) Illustrate about performing long-running tasks in a service.   *13*   *K3*   *CO5*

15. a) Discuss about deploying, hosting and publishing the APK Files.   *13*   *K2*   *CO6*

<div align="center">**OR**</div>

b) Enumerate how you publish an android application in the market.   *13*   *K3*   *CO6*

<div align="center">**PART - C (1× 15 = 15 Marks)**</div>

16. a) Describe how to display the Google maps in android application using location-based services.   *15*   *K2*   *CO4*

<div align="center">**OR**</div>

b) i) Explain about the accelerometer and gyroscope sensor types of mobile.   *8*   *K2*   *CO4*

    ii) Describe geocoding and reverse geocoding in detail.   *7*   *K2*   *CO4*