

P P SAVANI UNIVERSITY

Fourth Semester of Diploma Examination
April 2024

IDIT2040 MOBILE APPLICATION DEVELOPMENT

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

25.04.2024, Thursday

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL	PO
(i)	What is the purpose of the Android Manifest file?		2	1	2
(ii)	What type of OS is Android?		2	1	2
(iii)	What does a TextView display?		2	1	2
(iv)	How do you combine multiple layouts?		2	1	2
(v)	How can dates be displayed?		2	1	2
(vi)	What is the Toolbar for?		2	1	2
(vii)	What is the purpose of the Android Support Library?		2	1	2
Q - 2	What is the Open Handset Alliance (OHA), and how does it relate to Android? (5 marks)	[05]	2	2	1
Q - 2	Briefly describe the purpose of indicators, SeekBar, and Context Menus in Android.	[05]	2	2	1

OR

Q - 2	Differentiate between Views and ViewGroups in the context of layouts	[05]	2	2	3
(a)					
Q - 2	Explain the use of Checkboxes and Radio Groups in user interfaces with examples	[05]	2	2	3
(b)					
Q - 3	What are Intents in Android, and how are they used?	[05]	2	2	2
(a)					
Q - 3	What is the Toolbar in Android, and how is it used?	[05]	2	2	2
(b)					

OR

Q - 3	Describe the TableLayout and its use cases.	[05]	4	2	3
(a)					
Q - 3	What is the role of the Android Virtual Device (AVD) in app development?	[05]	4	2	3
(b)					
Q - 4	Attempt any one	[05]			
(i)	Design a user interface using LinearLayout and RelativeLayout. Explain the difference between them.		4	3	3
(ii)	Implement a context menu in an Android application and demonstrate its functionality		4	3	2

SECTION - II

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]			
(i)	What is the full form of API?		2	1	2
(ii)	What is the use cursor in SQLite?		2	1	2

(iii)	Which functions are used to delete values from shared preferences?	2	1	2
(iv)	Define the term animation.	2	1	2
(v)	Android applications are composed of _____ and _____.	2	1	2
(vi)	Enlist 2 applications in which we can use Google speech API.	2	1	2
(vii)	What does Google Maps API do in Android?	2	1	2
Q - 2	Write a code to demonstrate the use of 'rotate' and 'blink' animation in android application.	[05]	3	2
(a)				3
Q - 2	Write a note on android shared preferences.	[05]	3	3
(b)				

OR

Q - 2	Write a note on working of canvases and paints in android application.	[05]	3	3	3
(a)					
Q - 2	Write a code to demonstrate the use of 'Fade In' and 'Zoom Out' animation in android application.	[05]	3	3	2
(b)					
Q - 3	What necessary permissions are required to store data on secondary memory in android? Discuss various methods associated to store data on secondary memory.	[05]	3	2	3
(a)					
Q - 3	Write a note on telephony API and its key features.	[05]	3	2	2
(b)					

OR

Q - 3	How we can store data in internal memory from android application? Discuss its pros and cons.	[05]	4	3	2
(a)					
Q - 3	Write a note on android location API and its key features.	[05]	3	4	3
(b)					
Q - 4	Attempt any one.	[05]			
(i)	Create a simple android application to insert and update data in student table of PPSU SQLite database.		4	3	2
(ii)	Create a simple android application to delete and view data from voters table of Election SQLite database.		4	4	3

CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create

PS:

1. Kindly set the question paper using above mentioned format only.
2. Red Font indicate the changes to be done as per subject requirements. After modification, make the Font Black.
3. Do not forget to hide the table once done with paper setting.
4. Keep Level of Bloom's Revised Taxonomy table as a part of question paper.