SVKM'S

1 0 MAR 2023

Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics (Autonomous)

Academic Year (2022-23)

Class: S. Y. B.Sc.(Computer Science)

Semester: IV

Program: Bachelor of Science

Max. Marks: 75

Course Name: Android Developer Fundamentals

Course Code: <u>USMACS404</u>

Time: 10:30 am to 1:00 pm **Duration: 2hrs 30 minutes**

Date:

REGULAR EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) This question paper contains 2 pages.
- 2) All questions carry equal marks.
- 3) Answer to each new question to be started on a fresh page.
- 4) Figures in brackets on the right hand side indicate full marks.

Q.1.	Attempt any Three	(21)
a.	With the example differentiate framework and library	(7)
b.	Explain Scroll View and write a code snipped for the same	(7)
c.	Differentiate List View and Recycle View	(7)
d.	Develop code to add toggle button and display the toggle value	(7)
Q.2.	Attempt any Three	(21)
a.	Develop code and process to add image in a page	(7)
b .	Develop code to increase counter on tap of button	
c.	Develop UI code to add image in background and to add two text feild and one	(7)
	toggle button and at the end one button	
d.	Elaborate the light mode and Dark mode with the example and write down the precaution's measures.	(7)
Q.3.		
_	Attempt any Three	(21)
a.	Develop code to accept Name age address from the user, store the details in one JSON structure and save the data in JSON.	(7)
b.	Elaborate following firebase authentication method	(7)
	Mobile auth	(1)
	Email auth	
	Custom auth	
c.	Discuss loader write code for loader.	(7)
d.	Elaborate how mobile and server can interact with each other and list the required permission.	(7)

0.4.	Attempt any Three	(12)
	Discuss pubspec.yaml file.	(4)
	With the help of an example explain following	(4)
	1. Assest	
	2. Build.gradle	
c.	Differentiate Firebase cloud firestore and Firebase RTDB	(4)
d.	Differentiate Hybrid application development and native application development	(4)
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