

17 MAR 2022

**SVKM'S**  
**Mithibai College of Arts, Chauhan Institute of Science &**  
**Amrutben Jivanlal College of Commerce and Economics (Autonomous)**  
**Academic Year (2021-22)**

**Class: S.Y.B.Sc**  
**Program: Bachelor of Science**  
**Subject: Computer Science**  
**Course Code : USMACS404**  
**Date:**

**Semester: IV**  
**Max. Marks: 50**  
**Time: 7:30 am to 9:15 am**  
**Subject: Android Developer Fundamentals**  
**Duration: 1 hr 45 minutes**

**REGULAR EXAMINATION**

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**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) Answer to each new question to be started on a fresh page.
- 3) Assume Suitable data if necessary

**Q. 1 Attempt any TWO of the following.** **14**

- a. Explain android platform architecture with diagram.
- b. What is Intent? How to send and retrieve data using Intent? Explain with suitable example.
- c. What are the different examples of Input Controls? What is EditText and write a code to retrieve text from it? List its common input types?

**Q. 2 Attempt any TWO of the following.** **14**

- a. What is a popup menu? List and Explain Steps to implement popup menu.
- b. List and explain steps to connect to the Internet with suitable example.
- c. What is a notification? How are notifications used? Write a code to build and send a notification.

**Q. 3 Attempt any TWO of the following.** **14**

- a. What are different data storage options? When to use internal/external storage? Write a code to create a file in external storage.
- b. What is SQLite database? List and discuss the steps in implementing SQLite database in detail.
- c. What is a Content Provider? List and explain steps to implement Content Provider.

**Q. 4 Attempt any FOUR of the following.** **08**

- a. What is View? What are its properties? Give few examples.
- b. What are different forms of navigation? Explain in brief.
- c. Complete the below code, so that changes in the shared preferences are saved:  
`SharedPreferences.Editor preferencesEditor =  
mPreferences._____();`

```
preferencesEditor.putInt("count", mCount);  
preferencesEditor.putInt("color", mCurrentColor);  
preferencesEditor._____( );
```

- d. What are the benefits of using a SQLite database to store your data?
- e. What is custom broadcasts? How to send custom broadcasts?
- f. List the limitations of AsyncTask.