Roll No.

TBC-501

B. C. A. (FIFTH SEMESTER) MID SEMESTER EXAMINATION, Oct., 2023

ANDROID PROGRAMMING

Time: 11/2 Hours

Maximum Marks: 50

- Note: (i) Answer all the questions by choosing any one of the sub-questions.
 - (ii) Each question carries 10 marks.
- 1. (a) Define Android. Discuss History of Android and mention features of Android operating system. (CO1)

OR

(b) Explain Android architecture with the help of a diagram. Explain different layers present in Android architecture. (CO1)

- 2. (a) Explain the work of below files present in android: (CO1)
 - (i) AndroidManifest.xml
 - (ii) MainActivity.java
 - (iii) GeneratedR.java
 - (iv) Activity main.xml
 - (v) Strings.xml

OR

- (b) What do you understand by Dalvik Virtual Machine? How is DVM different from JVM. Explain compiling and packaging process from the source file in Android with the help of a diagram. (CO1)
- 3. (a) Explain Lifecycle on an Activity. Write a simple Android program to show lifecycle of activity. (CO1/CO2)

OR

(b) What do you understand by Constraints layout in Android? Write a code to add a button and constraint it to the middle of screen and print "hello" after clicking on the button using TextView. (CO1/CO2)

4. (a) Design Android application with EditText,

TextView and Button. Write java code
which takes String from EditText and
show content to TextView after clicking
on a button. (CO1/CO2)

OR

- (b) Explain in detail Content Provider and Broadcast Receiver. (CO2)
- 5. (a) Design Android application to show RadioGroup. Print the details of selected RadioButton from RadioGroup. (CO2)

OR

(b) Design application to get details from radio button like (gender, nationally, category etc.) and print selected details on screen using TextView. (CO2)