TCS–822

B. TECH. (CSE) (EIGHTH SEMESTER) MID SEMESTER EXAMINATION, March, 2024

MOBILE APPLICATIONS DEVELOPMENT

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Discuss History and versions of Android and mention features of android operating system. (CO1)

OR

(b) How many layers are present in android architecture ? Explain each with the help of example and diagram. (CO1)

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2. (a) What do you understand by Dalvik Virtual Machine (DVM) ? How is DVM different from JVM ? Explain compiling steps used in DVM.　　　　(CO1)

OR

(b) Explain the folder structure of the android studio with the help of important files present in the android system for example Android Manifest.xml, MainActivity. java and Strings.xml.　　　　(CO1)

3. (a) What do you mean by an Activity in android. Explain activity life cycle motioning all the states and transition diagram.　　　　(CO2)

OR

(b) What is shared preference in android system ? When should I use shared preferences ?　　　　(CO2)

4. (a) Design android application with EditText, TextView and Button. Write java code which takes String from EditText and show reverse of string to TextView after clicking on a button.　　　　(CO2)

OR

(b) Describe android application to get details from radio button like (Nationality, Gender, Category, Marital Status etc.) and print selected details on screen using TextView.　　　　(CO2)

5. (a) What is SQLite ? What is the difference between SQLite and SQL ? How is data stored in SQLite ?　　　　(CO2)

OR

(b) Explain in details Content Provider and Broadcast Receiver present in android system with suitable android code.　　　　(CO2)