

(6 pages)

Reg. No. :

Code No. : 20499 E Sub. Code : CECS 51

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fifth Semester

Computer Science — Major Elective

MOBILE APPLICATION DEVELOPMENT

(For those who joined in July 2021-2022 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which file contains the layout code of an Android activity?
(a) activity_layout.xml
(b) activity_main.xml
(c) android_layout.xml
(d) main_activity.xml

2. What is the purpose of the design editor in Android Studio?
(a) To write code
(b) To design graphical elements
(c) To edit images
(d) To create layouts visually
3. Which method is used to perform actions when an activity is resumed after being paused?
(a) onRestart() (b) onResume()
(c) onStart() (d) onStop()
4. In Android, which method is used to retrieve data from an intent in the receiving activity?
(a) getData() (b) getExtra()
(c) retrieveExtra() (d) getIntentData()
5. Which UI component is used to display a brief message to the user at the bottom of the screen?
(a) Dialog (b) Snackbar
(c) Toast (d) AlertDialog
6. Which UI component allows users to choose multiple options from a list?
(a) RadioButton (b) Spinner
(c) Checkbox (d) Switch



7. When using a list fragment, what method is typically overridden to customize the behavior of list item clicks?
- (a) `onListItemClicked()`
 - (b) `onItemClicked()`
 - (c) `onItemClick()`
 - (d) `onListItemClick()`
8. A _____ is a piece of an activity which enable more modular activity design.
- (a) Fragment
 - (b) Sub-activity
 - (c) Intents
 - (d) Filters
9. Which database management system does Android use to persist data within apps?
- (a) MySQL
 - (b) SQLite
 - (c) PostgreSQL
 - (d) MongoDB
10. How is data typically inserted into an SQLite database using Android's `SQLiteOpenHelper`?
- (a) Using the `executeQuery()` method
 - (b) Using the `insert()` method
 - (c) Using the `addData()` method
 - (d) Using the `createRecord()` method

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write down the steps to install Android studio.

Or

- (b) Classify the different layouts in Android.

12. (a) What happens when you run the stopwatch app? Discuss.

Or

- (b) How can you handle the screen rotation? Discuss.

13. (a) How can you add an image to an Android project? Discuss.

Or

- (b) Explain about spinner view.

14. (a) Write about persistent storage.

Or

- (b) How to set List View in Android? Explain.

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15. (a) How to insert data into SQLite database in Android Studio? Explain.

Or

- (b) Explain about time picker and its uses.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) How do you implement *onclick events* in Android activities? Discuss.

Or

- (b) Discuss about linking activities using intents.

17. (a) Discuss the steps to create a new Android project.

Or

- (b) How can you pass data from one activity to another? Explain.

18. (a) Explain about notification in Android.

Or

- (b) How to display an image using Image View? Discuss.

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19. (a) Describe the linking activities and fragments.

Or

- (b) Elaborate note on location based services.

20. (a) Develop an alarm application that rings every day at 6 a.m.

Or

- (b) How to use the SQLite database in Android app? Discuss.

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