### 1. A Fragment can exist independently without being attached to an Activity.

Answer: False

**Explanation**: A Fragment must always be associated with an Activity; it cannot exist

independently.4

# 2. What is the primary purpose of onSaveInstanceState() in an Activity?

Answer: b. To save the current state of the Activity in case it is destroyed and recreated Explanation: This method saves state information in a Bundle to restore the Activity later.

# 3. Activities are the only components that can host a Fragment.

**Answer: False** 

**Explanation**: Fragments can also be hosted by other Fragments (nested Fragments).

#### 4. What happens when you call finish() in an Activity?

Answer: a. The current Activity is destroyed and removed from the back stack

Explanation: The system calls onDestroy() and removes the Activity from the back stack.

### 5. Which method is called when an Activity is becoming visible to the user?

Answer: a. onStart()

**Explanation**: onStart() is called when the Activity becomes visible but not yet interactive.

# 6. Match the Fragment lifecycle method with its corresponding event.

- onCreateView(): B) Called to create the Fragment's view hierarchy
- onDestroy(): D) Called when the Fragment is being destroyed
- onCreate(): A) Called when the Fragment is created
- onPause(): C) Called when the Fragment is about to go into the background

#### 7. Match the layout attribute with its purpose.

- layout\_margin: A) Sets the outer space of the view
- layout\_weight: D) Defines the proportion of space a view should occupy in a LinearLayout
- layout\_gravity: C) Specifies how a view should be placed within its parent
- layout\_padding: B) Sets the inner space within the view's boundaries

### 8. Which layout allows you to position child views relative to each other?

Answer: a. RelativeLayout

Explanation: RelativeLayout allows positioning child views relative to each other or the parent.

# 9. The onPause() method is guaranteed to be called before an Activity is destroyed.

**Answer: False** 

**Explanation**: The system may skip onPause() in cases where the Activity is forcefully terminated.

# 10. The onCreateView() method in a Fragment is used to create and return the Fragment's view hierarchy.

**Answer: True** 

**Explanation**: onCreateView() is responsible for inflating and returning the Fragment's UI.

#### 11. Match the Fragment-related method with its purpose.

- replace(): D) Replaces an existing Fragment with a new one
- commit(): C) Commits a Fragment transaction
- addToBackStack(): B) Adds a Fragment transaction to the back stack
- findFragmentById(): A) Locates a Fragment by its ID

### 12. In Android, a layout defines the structure for a user interface (UI).

**Answer: True** 

**Explanation**: Layouts define the arrangement of views in an Activity or Fragment.

# 13. A RelativeLayout allows you to position its child views in relation to other child views or the parent container.

**Answer: True** 

**Explanation**: This is the primary purpose of RelativeLayout.

# 14. Match the Activity lifecycle method with the correct sequence.

- onStop(): D) The Activity is no longer visible to the user
- onStart(): A) The Activity becomes visible to the user
- onPause(): C) The Activity loses focus but remains visible
- onResume(): B) The Activity comes to the foreground and becomes interactive

# 15. Which of the following methods is used to add a Fragment to an Activity?

Answer: c. add()

**Explanation**: add() is used to add a Fragment to an Activity's container.

# 16. What is the purpose of FragmentTransaction in Android development?

Answer: a. To perform operations such as adding, removing, or replacing fragments Explanation: FragmentTransaction is used to manage Fragment-related operations.

# 17. The onCreate() method is called only once throughout the lifetime of an Activity.

**Answer: True** 

**Explanation**: onCreate() is called once when the Activity is created and initializes resources.

#### 18. Match the Activity state with its description.

- Paused: B) The Activity is visible but not in the foreground
- Stopped: C) The Activity is no longer visible and may be killed by the system
- Destroyed: D) The Activity is terminated and removed from memory
- . Active: A) The Activity is running and interacting with the user

# 19. The LinearLayout arranges its children in a single column or row, either horizontally or vertically.

**Answer: True** 

**Explanation**: The LinearLayout arranges child views in a straight line based on its orientation

attribute.