**Answer a** - Advantages of Flutter –

1. Fast Development

2. Beautiful User Interface

3. Single codebase for all platforms

Disadvantages of Flutter –

1. Limited third-party libraries

2. Large App size

3. Steep learning curve

**Answer b** - Stateful widgets can remember information and update what you see on the screen based on what you do in the app, like tapping a button. They're like little mini-programs that keep track of things! These are great for things that change, like forms, games, or chat apps.

Stateless widgets are simpler. They show a fixed view and can't change on their own. Think of them like pictures - what you see is what you get. They're perfect for things that always look the same, like labels, icons, or simple buttons.

**Answer c** - 1. Debug Mode

2. Release Mode

3. Profile Mode

**Answer d** - we can create private variables in dart by putting \_ before their name. For example string \_name;