

1. What is an abstract class?

- A. A class that cannot be instantiated
- B. A class that can only be subclassed
- C. A class that can only be used as an interface
- D. A class that can be used as an interface or a superclass

2. What is an interface?

- A. A class that cannot be instantiated
- B. A class that can only be subclassed
- C. A class that can only be used as an interface
- D. A class that can be used as an interface or a superclass

3. What is the difference between an abstract class and an interface?

- A. An abstract class cannot be instantiated, while an interface can
- B. An abstract class can only be subclassed, while an interface can be implemented
- C. An abstract class can only be used as an interface, while an interface can be implemented
- D. An abstract class can be used as an interface or a superclass, while an interface can only be implemented

4. Which of the following is true about abstract classes?

- A. Abstract classes cannot be instantiated
- B. Abstract classes can only be subclassed
- C. Abstract classes can only be used as interfaces
- D. Abstract classes can be used as interfaces or superclasses

5. Which of the following is true about interfaces?

- A. Interfaces cannot be instantiated
- B. Interfaces can only be subclassed
- C. Interfaces can only be used as interfaces
- D. Interfaces can be used as interfaces or superclasses

6. Which of the following is not a benefit of using abstract classes?

- A. Abstract classes can provide a default implementation of an interface
- B. Abstract classes can be used to group related classes
- C. Abstract classes can be used to hide implementation details
- D. Abstract classes can be used to enforce object-oriented principles

7. Which of the following is not a benefit of using interfaces?

- A. Interfaces can be used to group related classes
- B. Interfaces can be used to hide implementation details
- C. Interfaces can be used to enforce object-oriented principles
- D. Interfaces can be used to define contracts between classes

8. Which of the following is not a disadvantage of using abstract classes?

- A. Abstract classes can be difficult to understand
- B. Abstract classes can be difficult to maintain
- C. Abstract classes can be difficult to test
- D. Abstract classes can be inflexible

9. Which of the following is not a disadvantage of using interfaces?

- A. Interfaces can be difficult to understand
- B. Interfaces can be difficult to maintain
- C. Interfaces can be difficult to test
- D. Interfaces can be inflexible

10. Which of the following is the best reason to use an abstract class?

- A. To provide a default implementation of an interface
- B. To group related classes
- C. To hide implementation details
- D. To enforce object-oriented principles

11. Which of the following is the best reason to use an interface?

- A. To group related classes
- B. To hide implementation details
- C. To enforce object-oriented principles
- D. To define contracts between classes

12. Which of the following is not a reason to use abstract classes?

- A. To provide a default implementation of an interface
- B. To group related classes
- C. To hide implementation details
- D. To enforce object-oriented principles

13. Which of the following is not a reason to use interfaces?

- A. To group related classes
- B. To hide implementation details
- C. To enforce object-oriented principles
- D. To define contracts between classes

14. What is the best reason to use an abstract class?

- A. To provide a default implementation of an interface
- B. To group related classes
- C. To hide implementation details
- D. To enforce object-oriented principles

15. What is the best reason to use an interface?

- A. To group related classes
- B. To hide implementation details
- C. To enforce object-oriented principles
- D. To define contracts between classes

Answer Key: 1-D, 2-C, 3-D, 4-D, 5-D, 6-D, 7-D, 8-A, 9-A, 10-A, 11-D, 12-A, 13-A, 14-A, 15-D