

MCQ Answers

1. Which of the following is not introduced with Java 8?

- a) Stream API
- b) Serialization
- c) Spliterator
- d) Lambda Expression

Ans: Serialization

2. What is the purpose of BooleanSupplier function interface?

- a) represents supplier of Boolean-valued results
- b) returns Boolean-valued result
- c) There is no such function interface
- d) returns null if Boolean is passed as argument

Ans: returns Boolean-valued result

3. What is the return type of lambda expression?

- a) String
- b) Object
- c) void
- d) Function

Ans: Function

4. Which is the new method introduced in java 8 to iterate over a collection?

- a) for (String i : StringList)
- b) foreach (String i : StringList)
- c) StringList.forEach()
- d) List.for()

Ans: StringList.forEach()

5. What are the two types of Streams offered by java 8?

- a) sequential and parallel
- b) sequential and random
- c) parallel and random
- d) random and synchronized

Ans: sequential and parallel

6. Which feature of java 8 enables us to create a work stealing thread pool using all available processors at its target?

- a) workPool
- b) newWorkStealingPool
- c) threadPool
- d) workThreadPool

Ans: newWorkStealingPool

7. What does Files.lines(Path path) do?

- a) It reads all the files at the path specified as a String
- b) It reads all the lines from a file as a Stream
- c) It reads the filenames at the path specified
- d) It counts the number of lines for files at the path specified

Ans: It reads all the lines from a file as a Stream

8. What is Optional object used for?

- a) Optional is used for optional runtime argument
- b) Optional is used for optional spring profile
- c) Optional is used to represent null with absent value
- d) Optional means it's not mandatory for method to return object

Ans: Optional is used to represent null with absent value

9. What is the substitute of Rhino javascript engine in Java 8?

- a) Nashorn
- b) V8
- c) Inscript
- d) Narcissus

Ans: Nashorn

10. What does SAM stand for in the context of Functional Interface?

- a) Single Ambivalue Method
- b) Single Abstract Method
- c) Simple Active Markup
- d) Simple Abstract Markup

Ans: Single Abstract Method

11. Which of the following are valid lambda expressions?

- a. String a, String b -> System.out.print(a+ b);
- b. () -> return;
- c.(int i) -> i;
- d. (int i) -> i++; return i;

Ans:(int i) -> i;

12. Given below code snippet

```
interface A {  
    int aMethod(String s);  
}
```

13. Which of the following are valid statements?

- a. A a = a -> a.length();
- b. A x = y -> {return y;};
- c.A s = "2" -> Integer.parseInt(s);
- d. A b = (String s) -> 1;

Ans: A b = (String s) -> 1;

14. A lambda expression can be used...
- a. As a method argument
 - b. As a conditional expression in an if statement
 - c. In a return statement
 - d. In a throw statement

Ans: As a method argument & In a return statement

15. Which of the following are functional interfaces? (Select ALL that apply)

- a. java.util.stream.Stream
- b. java.util.function.Consumer
- c. java.util.function.Supplier
- d. java.util.function.Predicate
- e. java.util.function.Function

Ans: Option (B,C,D,E).

16. Choose the correct option based on this program:

```
import java.util.function.BiFunction;
public class StringCompare {
    public static void main(String args[]) {
        BiFunction < String, String, Boolean > compareString = (x, y) -
        >
        x.equals(y);
        System.out.println(compareString.apply("Java8", "Java8"));
    }
}
```

- a. This program results in a compiler error in the line marked with #1
- b. This program prints: true
- c. This program prints: false
- d. This program prints: (x, y) -> x.equals(y)
- e. This program prints: ("Java8", "Java8") -> "Java8".equals("Java8")

Ans: This program prints: true

17. Which one of the following abstract methods does not take any argument but returns a value?

- a. The accept() method in java.util.function.Consumer interface
- b. The get() method in java.util.function.Supplier interface
- c. The test() method in java.util.function.Predicate interface
- d. The apply() method in java.util.function.Function interface

Ans: The get() method in java.util.function.Supplier interface

18. Which of the following interfaces of the Java API can be considered functional?

- a. java.util.concurrent.Callable
- b. java.util.Map
- c. java.util.Iterator
- d. java.lang.Comparable

Ans: java.util.concurrent.Callable & java.lang.Comparable

19. Which of the following are intermediate operations?

- a. limit
- b. peek
- c.anyMatch
- d. skip

Ans: limit, peek &, skip

20. Which of the following are terminal operations?

- a. sorted
- b. flatMap
- c. max
- d. Distinct

Ans: max

21. Which of the following are short-circuit operations?

- a. reduce
- b. parallel
- c.findNone
- d. findFirst

Ans: findFirst

22. Which of the following are valid ways to create a LocalDate object?

- a. LocalDate.of(2014);
- b. LocalDate.with(2014, 1, 30);
- c.LocalDate.of(2014, 0, 30);
- d. LocalDate.now().plusDays(5);

Ans: LocalDate.now().plusDays(5);

23. Which of the following are valid ChronoUnit values for LocalTime?

- a. YEAR
- b. NANOS
- c.DAY
- d. HALF_DAYS

Ans: NANOS & HALF_DAYS

24. Which one of the following classes is best suited for storing timestamp values of application events in a file?

- a. java.time.ZoneId class
- b. java.time.ZoneOffset class
- c.java.time.Instant class
- d. java.time.Duration class
- e. java.time.Period class

Ans: java.time.Instant class