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26 Questions Total Marks: 130.0

25 Multiple Choice Questions

1. In Spring Boot, which of the following is a special starter ... +4.0

2. In Spring Boot, which of the following codes is used to disa... +4.0

3. In REST API, which of the following REST methods are similar... +2.0

4. In Java API, which of the following methods +6.0

5. Which of the following statements about microservices +6.0

6. In Microservices, which of the +4.0

Question 1 Max. Marks 4.00

In Spring Boot, which of the following is a special starter that makes Maven or Gradle dependency-management easier by adding jars to the classpath?

☐ spring-boot-starter-data-jpa

☒ spring-boot-starter-parent

☐ spring-boot-starter-web

☐ spring-boot-starter-dependency

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26 Questions Total Marks: 130.0

25 Multiple Choice Questions

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5. Which of the following statements about microservices +6.0

6. In Microservices, which of the +4.0

Question 2 Max. Marks 4.00

In Spring Boot, which of the following codes is used to disable specific auto-configuration classes?

☒ @Configuration @EnableAutoConfiguration(exclude={DataSourceAutoConfiguration.class}) public class CustomConfiguration { }

☐ @Configuration @DisableAutoConfiguration(exclude={DataSourceAutoConfiguration.class}) public class CustomConfiguration { }

☐ @Config @EnableConfiguration(exclude={DataSourceAutoConfiguration.class}) public class CustomConfiguration { }

☐ @Config @AutoConfiguration(exclude={DataSourceAutoConfiguration.class}) public class CustomConfiguration { }

Submit Reset Answer

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26 Questions Total Marks: 130.0

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6. In Microservices, which of the +4.0

Question 3

Max. Marks 2.00

In REST API, which of the following REST methods are similar with respect to functionality?

- ☐ GET and PUT
- ☐ POST and DELETE
- ☐ POST and HEAD
- ☒ GET and HEAD

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Next Question >

26 Questions Total Marks: 130.0

25 Multiple Choice Questions

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Question 4

Max. Marks 6.00

In Java API, which of the following methods will throw ProtocolException?

- ☐ getResponseCode
- ☐ getPermission
- ☒ setRequestMethod
- ☐ disconnect

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HTTP Methods - REST API Verbs...

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1. In Spring Boot, which of the following is a special starter ...+ 4.0

2. In Spring Boot, which of the following codes is used to disa...+ 4.0

3. In REST API, which of the following REST methods are similar...+ 2.0

4. In Java API, which of the following methods+ 6.0

5. Which of the following statements about microservices+ 6.0

6. In Microservices, which of the following components is used ...+ 4.0

7. Which of the following characteristics are mandatory in an...+ 2.0

Question 5Max. Marks 6.00

Which of the following statements about microservices are correct:

1. Each microservice contains its own load balancer and execution environment.

2. Microservices communicate with each other through a message bus.

3. There are three types of scaling procedures in Microservices: X-Axis, Y-Axis, and Z-Axis

4. Each service is self-contained in nature and implements a single business capability.

☐ 1, 2, and 3

☐ 1, 2, and 4

☐ 1, 3, and 4

☒ All of these

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HTTP Methods - REST API Verbs...

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6. In Microservices, which of the following components is used ...+ 4.0

7. Which of the following characteristics are mandatory in an...+ 2.0

Question 6Max. Marks 4.00

In Microservices, which of the following components is used to communicate all the functionalities to clients?

☐ Service discovery

☒ API gateway

☐ Message bus

☐ None of these

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1. In Spring Boot, which of the following is a special starter ... +4.0

2. In Spring Boot, which of the following codes is used to disa... +4.0

3. In REST API, which of the following REST methods are similar... +2.0

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5. Which of the following statements about microservices +6.0

6. In Microservices, which of the following components is used ... +4.0

7. Which of the following characteristics are mandatory in an efficient microservice system? +2.0

Question 7 Max. Marks 2.00

Which of the following characteristics are mandatory in an efficient microservice system?

☒ High cohesion and low coupling

☐ High cohesion and high coupling

☐ Low cohesion and low coupling

☐ Low cohesion and high coupling

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1. In Spring Boot, which of the following is a special starter ... +4.0

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5. Which of the following statements about microservices +6.0

6. In Microservices, which of the following components is used ... +4.0

7. Which of the following characteristics are mandatory in an efficient microservice system? +2.0

Question 8 Max. Marks 4.00

In Java, which of the following statements about the **shallow copy** of an array are correct:

1. Elements of both the original and the cloned array refer to the same object in memory.

2. Elements of the original and the cloned array refer to different objects in memory.

3. Objects can be modified by using their references that are stored in the original array as well as the cloned array.

4. The original array can be modified even if a copy of the original array is passed to a method.

☐ 1, 3, and 4

☐ 2, 3, and 4

☒ 1, 2, and 3

☐ 1, 2, and 4

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 10 Max. Marks 2.00

In the Spring framework, which of the following is the default implementation class for exception handling?

☒ SimpleMappingExceptionHandler

☐ HandlerExceptionHandler

☐ MappingExceptionHandler

☐ None of these

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

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12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 11 Max. Marks 4.00

In Java, if you are required to modify the contents of an unmodifiable collection, then which of the following exceptions is thrown?

☐ ClassCastException

☒ UnsupportedOperationException

☐ IllegalArgumentException

☐ None of these

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0 -1.0

```
import java.util.*;

public class ListProg {

    public static void main(String args[]) {
        List<String> myList = new ArrayList<String>();

        myList.add("1");
        myList.add("2");
        myList.add("3");
        myList.add("4");

        Iterator<String> it = myList.iterator();
        while (it.hasNext()) {
            String value = it.next();
            System.out.println(" " + value);
            if (value.equals("2"))
                myList.remove(value);
        }
    }
}
```

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0 -1.0

☐ 1 2 3 4

☐ 1 3 4

☒ 1 2 Runtime Error-ConcurrentModificationException is generated

☐ Runtime Error-ConcurrentModificationException is generated

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10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0 -1.0

```
import java.util.*;

class HackerEarth
{
    public static void main(String args[])
    {
        ArrayList<String> h = new ArrayList<String>();
        System.out.println(h.size());
        h.add("h");
        h.add("a");
        h.add("c");
        h.add(1, "k");
        System.out.println(h.size());
        h.remove("a");
        h.remove(2);
        System.out.println(h.size());
    }
}
```

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0 -1.0

System.out.println(h.size());

}  
}

☒ 0 4 2

☐ null 4 2

☐ 1 5 3

☐ 0 4 3

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HTTP Methods - REST API Verbs...

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8. In Java, which of the following statements about the shallow...+4.0

9. In Java, which of the following statements about method over...+4.0

10. In the Spring framework, which of the following is the defau...+2.0

11. In Java, if you are required to modify the contents of an un...+4.0

12. What is the output of the following Java code:+6.0

13. What is the output of the following Java code:+4.0

14. What is the output of the following Java code:+4.0-1.0

```
import java.util.*;

class HackerEarth
{
    public static void main(String args[])
    {
        ArrayList<Double> vals = new ArrayList<>();
        vals.add(1.0);
        vals.add(4.0);
        vals.add(16.0);
        Splitter<Double> splitr = vals.splitter();
        while(splitr.tryAdvance((n) -> System.out.print(" "+n)));
        System.out.println();
        splitr = vals.splitter();
        ArrayList<Double> sqrs = new ArrayList<>();
        while(splitr.tryAdvance((n) -> sqrs.add(Math.sqrt(n))));
        splitr = sqrs.splitter();
        splitr.forEachRemaining((n) -> System.out.print(" "+n));
    }
}
```

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

```
splittr.forEachRemaining((n) -> System.out.print(" "+n));
}
```

☒ 1.0 4.0 16.0 1.0 2.0 4.0

☐ 1.0 2.0 4.0 1.0 4.0 16.0

☐ 1 4 16 1 2 4

☐ Compilation error

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11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 15 Max. Marks 4.00

In Java, which of the following static variables are defined in the `collections` class:

1. EMPTY\_SET
2. EMPTY\_LIST
3. EMPTY\_MAP
4. EMPTY\_TREE

☐ 1, 2, and 4

☐ 1, 3, and 4

☒ 1, 2, and 3

☐ 2, 3, and 4

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following java code: +6.0

13. What is the output of the following java code: +4.0

14. What is the output of the following java code: +4.0 -1.0

Question 16 Max. Marks 4.00

In Java 8, which of the following statements about the lambda expressions are correct:

1. It enables you to treat functionality as a method argument.
2. It allows you to write functions that do not belong to a class.
3. You should create a functional interface for calling a lambda expression.
4. Lambda expressions cannot have empty bodies.

☐ 1, 2, and 4

☐ 2, 3, and 4

☒ 1, 2, and 3

☐ 1, 3, and 4

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following java code: +4.0 -1.0

Question 17 Max. Marks 4.00

What is the output of the following Java 8 code:

```
"hackerearth".chars().distinct().peek(ch->System.out.print(ch)).sorted();
```

☐ a,c,e,h,k,r,t

☐ t,r,k,h,e,c,a

☐ Compilation error

☒ No output

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8. In Java, which of the following statements about the shallow... + 4.0

9. In Java, which of the following statements about method over... + 4.0

10. In the Spring framework, which of the following is the defau... + 2.0

11. In Java, if you are required to modify the contents of an un... + 4.0

12. What is the output of the following Java code: + 6.0

13. What is the output of the following Java code: + 4.0

14. What is the output of the following Java code: + 4.0 - 1.0

Question 18 Max. Marks 4.00

In Spring Boot, which of the following sequences of steps to create a deployable war file is correct:

1. Mark the embedded servlet container dependency as provided.

2. Extend SpringBootServletInitializer and override its configuration method.

3. Change the packing type to war in pom.xml or in build.gradle.

☐ 1 -> 2 -> 3

☒ 1 -> 3 -> 2

☐ 2 -> 3 -> 1

☐ 2 -> 1 -> 3

Submit

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 19 Max. Marks 4.00

In Spring Boot, which of the following open-source projects is used to publish and subscribe to the messages based on the fault-tolerant messaging system?

☐ Twilio

☐ Apache Kafka

☒ Hystrix

☐ Rabbit MQ

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8. In Java, which of the following statements about the shallow... +4.0

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11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 20 Max. Marks 4.00

In Java, which of the following statements about the default methods are correct:

1. It provides a default implementation for a method.
2. It is declared by using the keyword **default**.
3. It can be declared as static or abstract.
4. A default method does not have access to the instance of variables of a class that is used to implement the interface.

☐ 1, 2, and 3

☒ 1, 2, and 4

☐ 1, 3, and 4

☐ 2, 3 and 4

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8. In Java, which of the following statements about the shallow... +4.0

9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

11. In Java, if you are required to modify the contents of an un... +4.0

12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 21 Max. Marks 4.00

In OOP, which of the following is an example of static polymorphism?

☐ Operator overloading

☐ Function overloading

☐ Templates

☒ All of these

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9. In Java, which of the following statements about method over... +4.0

10. In the Spring framework, which of the following is the defau... +2.0

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12. What is the output of the following Java code: +6.0

13. What is the output of the following Java code: +4.0

14. What is the output of the following Java code: +4.0

Question 22 Max. Marks 4.00

Which of the following strategies are used to test a microservice architecture:

1. Scalability testing

2. Functionality testing

3. End-to-end testing

4. User interface testing

☐ 1, 2, and 3

☐ 1, 3, and 4

☐ 2, 3, and 4

☒ All of these

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Problems - Sutherland Java Deve... x

HTTP Methods - REST API Verbs... x

operator overloading is an exam... x

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8. In Java, which of the following statements about the shallow... + 4.0

9. In Java, which of the following statements about method over... + 4.0

10. In the Spring framework, which of the following is the defau... + 2.0

11. In Java, if you are required to modify the contents of an un... + 4.0

12. What is the output of the following Java code: + 6.0

13. What is the output of the following Java code: + 4.0

14. What is the output of the following Java code: + 4.0

Question 23

Max. Marks 4.00

In Spring Batch, an interface is used for item transformation. If an item is provided as an input, then this interface provides an extension point that allows the application of business logic to be processed in an item-oriented processing scenario. Which of the following interface is valid in this context?

☐ ItemReader

☐ ItemProcessor

☐ ItemStreamWriter

☒ Step

Submit

Reset Answer

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Question 24 Max. Marks 4.00

In Spring Batch, which of the following interfaces is called to perform a single task such as clean, delete, or set up resources before or after any step is executed?

☐ Step

☒ Tasklet

☐ Chunk

☐ TaskSingle

Submit Reset Answer

Next Question >

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Question 25 Max. Marks 4.00

In Spring Cloud, which of the following endpoints updates each instance environment with the specified key or value pair across multiple instances?

☐ /actuator/refresh

☐ /actuator/key-pair

☐ /actuator/update

☒ /actuator/bus-env

Submit Reset Answer

Next Question >

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14. What is the output of the following Java code:

+ 4.0

- 1.0

Question 26

Max. Marks 30.00

Games API

[Problem Statement]

Develop a pseudo backend application which would let the developers fetch games related data.

[Minimum Requirement]

— Write a functional REST based backend using Java Spring, Hibernate

— Use of the Csv file provided and put all the data in a database.

— Implement multiple APIs which expose this data from your backend.

— Submit Screenshot, Source code & Instructions.

[Plus Point]

— A feature to Search (via name). Implement a search API which takes parameters and searches for the given query

Type here to search

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+ 4.0

14. What is the output of the following Java code:

+ 4.0

- 1.0

— Submit Screenshot, Source code & Instructions.

[Plus Point]

— A feature to Search (via name). Implement a search API which takes parameters and searches for the given query and returns a relevant response.

— Implement key based authentication in your backend. All the incoming requests should be validated by the authentication keys.

— Implement APIs to allow create, update and delete records. The APIs should take parameters in the request to create, update and delete specific records. Also provide certain response codes which will be sent back to the user as a status of the request.

[Guide]

— Games Listing CSV File: <http://hck.re/fGVUjw>

— Preferred Tech Stack:

Backend Stack: Core Java, Spring Framework, JPA/Hibernate, REST Services

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