Localization - 0

Assume that proper import statements are available, and ‘fr’ is the language code for French language.

And you have the following code snippet:

```
Locale [] loc = Locale.getAvailableLocales();
```

Which of the following statements will print all the supported (by the JVM) French Language Locale on to the console? Select ALL that apply.

A - Arrays.stream(loc).filter(x -> x.getLanguage().equals(“fr”)).forEach(System.out::println);

B - Arrays.stream(loc).filter(x -> x.toString().contains(“FR”)).forEach(System.out::println);

C - Arrays.stream(loc).filter(x -> x.startsWith(“fr”)).forEach(System.out::println);

D - Arrays.stream(loc).filter(x -> x.toString().startswWith(“fr”)).forEach(System.out::println);

E - Arrays.stream(loc).filter(x -> x.getLanguage().contains(“FR”)).forEach(System.out::println);

Localization - 1

Below files are available for your project:

//1. ResourceBundle.properties locale=French/Canada //2. ResourceBundle_CA.properties locale=Canada //3. ResourceBundle_hi.properties locale=Hindi //4. ResourceBundle_IN.properties locale=India //5. Test.java

```
import java.util.Locale;
import java.util.ResourceBundle;

public class Test {
    public static void main(String[] args) {
        Locale.setDefault(new Locale("fr", "CA"));
        Locale loc = new Locale("en", "IN");
        ResourceBundle rb =
         ResourceBundle.getBundle("ResourceBundle", loc);
        System.out.println(rb.getObject("locale"));
    }
}
```

Assume that all the *.properties files are included in the CLASSPATH. What will be the output of compiling and executing Test class?

A - India

B - French/Canada

C - Canada

D - Hindi

E - Runtime Exception

Localization - 2

Below files are available for your project:

//1. RB.properties key1=one key3=three

//2. RB_en.properties key3=THREE

//3. RB_en_US.properties key1=ONE key2=TWO

//4. Test.java

```
import java.util.Enumeration;
import java.util.Locale;
import java.util.ResourceBundle;

public class Test {
    public static void main(String[] args) {
        Locale loc = new Locale("en", "US");
        ResourceBundle bundle = ResourceBundle.getBundle("RB",
         loc);
        Enumeration<String> enumeration = bundle.getKeys();
        while (enumeration.hasMoreElements()) {
            String key = enumeration.nextElement();
            String val = bundle.getString(key);
            System.out.println(key + "=" + val);
        }
    }
}
```

Assume that all the *.properties files are included in the CLASSPATH. What will be the output of compiling and executing Test class?

A -

```
key1=one
key2=TWO
key3=three
```

B -

```
key1=ONE
key2=TWO
```

C -

```
key1=ONE
key2=TWO
key3=THREE
```

D - key3=THREE

E -

```
key1=one
key3=three
```

Localization - 3

Below is the content of 'F:.properties' file: key1=Good Morning! key2=Good Evening!

Given code of Test.java file:

```
import java.io.FileInputStream;
import java.io.IOException;
import java.util.Properties;

public class Test {
    public static void main(String[] args) throws IOException {
        Properties prop = new Properties ();
        FileInputStream fis = new FileInputStream
         ("F:\\Message.properties");
        prop.load(fis);
        System.out.println(prop.getProperty("key1"));
        System.out.println(prop.getProperty("key2", "Good Day!"));
        System.out.println(prop.getProperty("key3", "Good Day!"));
        System.out.println(prop.getProperty("key4"));
    }
}
```

There is full permission to list/create/delete files and directories in F:.
What will be the result of compiling and executing Test class?

A -

```
Good Morning!
Good Day!
Good Day!
null
```

B -

```
Good Morning!
Good Evening!
Good Day!
null
```

C -

```
Good Morning!
Good Day!
null
null
```

D -

```
Good Morning!
Good Evening!
null
```

```
null
```

Localization - 4

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale locale = new Locale("temp", "UNKNOWN"); //Line 7
        System.out.println(locale.getLanguage() + ":" +
         locale.getCountry()); //Line 8
        System.out.println(locale); //Line 9
    }
}
```

What will be the result of compiling and executing Test class?

A - Line 8 throws exception at runtime

B - Line 7 throws exception at runtime

C - Compilation error

D - Line 9 throws exception at runtime

E -

```
temp: UNKNOWN
temp_UNKNOWN
```

Localization - 5

Below files are available for your project:

//1. ResourceBundle.properties locale=French/Canada //2. ResourceBundle_CA.properties locale=Canada //3. ResourceBundle_hi.properties locale=Hindi //4. ResourceBundle_IN.properties locale=India

//5. Test.java

```
import java.util.Locale;
import java.util.ResourceBundle;

public class Test {
    public static void main(String[] args) {
        Locale.setDefault(new Locale("fr", "CA"));
        Locale loc = new Locale("en", "IN");
        ResourceBundle rb =
         ResourceBundle.getBundle("MyResourceBundle", loc);
        System.out.println(rb.getObject("locale"));
    }
}
```

Assume that all the *.properties files are included in the CLASSPATH. What will be the output of compiling and executing Test class?

A - Runtime Exception

B - India

C - Canada

D - Hindi

E - French/Canada

Localization - 6

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale loc = new Locale("it", "IT"); //Line 7
        loc.setDefault(loc); //Line 8
        System.out.println(Locale.getDefault());
    }
}
```

Which of the following statement is correct about above code?

A - Code compiles and execute successfully but may print text other than it_IT.

B - Code compiles and executes successfully and prints it_IT on to the console.

C - Line 8 causes compilation failure.

Localization - 7

Given code of Test.java file:

```
import java.text.*;
import java.time.format.DateTimeFormatter;
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        DateTimeFormatter dateFormatter =
         DateTimeFormatter.ofPattern("dd-MM-uuuu"); //Line n1
        System.out.println(dateFormatter.parse("10-5-2019")); //Line
         n2
        NumberFormat currFormatter =
         NumberFormat.getCurrencyInstance(Locale.US); //Line n3
        System.out.println(currFormatter.parse("$7.00")); //Line n4
    }
}
```

What will be the result of compiling and executing Test class?

A - Line n4 causes compilation failure

B - Code compiles successfully and on execution no exception is thrown at runtime

C - Line n2 causes compilation failure

D - Code compiles successfully and on execution an exception is thrown by Line n2

E - Code compiles successfully and on execution an exception is thrown by Line n4

Localization - 8

Which of the following code will create/return a Locale object for the JVM, on which your code is running?

A - Locale.getDefaultLocale();

B - System.getDefault();

C - Locale.getLocale();

D - Locale.getDefault();

Localization - 9

Which of the following statements successfully create a Locale instance? Select ALL that apply.

A - Locale loc4 = new Locale(“”,””);

B - Locale loc3 = new Locale(“”);

C - Locale loc2 = new Locale(loc1);

D - Locale loc5 = new Locale(“”,””,””);

E - Locale loc1 = new Locale();

Localization - 10

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale loc = new Locale("it", "IT");
        System.out.println(loc.getDisplayCountry()); //Line 8
        System.out.println(loc.getDisplayCountry(Locale.CHINA));
         //Line 9
        System.out.println(loc.getDisplayLanguage()); //Line 10
        System.out.println(loc.getDisplayLanguage(Locale.CHINA));
         //Line 11
    }
}
```

Which of the following statement is correct about above code?

A - Line 9 and Line 11 cause compilation error

B - Line 8 and Line 10 cause compilation error

C - Given code compiles successfully

Localization - 11

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale loc = Locale.ENGLISH;
        loc.setCountry("en");
        loc.setCountry("CA");

        System.out.println(loc.getDisplayCountry());
    }
}
```

‘CA’ is the country code for ‘Canada’.

What will be the result of compiling and executing Test class?

A - Canada

B - No text is displayed in the output

C - English

D - United States

E - Compilation error

Localization - 12

Given code of 4 Java files:

//1. MyResourceBundle.java

```
package com.training.ocp;

import java.util.ListResourceBundle;

public class MyResourceBundle extends ListResourceBundle {
    @Override
    protected Object[][] getContents() {
        Object [][] arr = {{"surprise", "SURPRISE!"}};
        return arr;
    }
}


//2. MyResourceBundle_en_CA.java
package com.training.ocp;

import java.util.ListResourceBundle;

public class MyResourceBundle_en_CA extends ListResourceBundle {
    @Override
    protected Object[][] getContents() {
        Object [][] arr = {{"surprise", 12.64}};
        return arr;
    }
}


//3. MyResourceBundle_fr.java
package com.training.ocp;

import java.util.ListResourceBundle;

public class MyResourceBundle_fr extends ListResourceBundle {
    @Override
    protected Object[][] getContents() {
        Object [][] arr = {{"surprise", 1001}};
        return arr;
    }
}


//4. Test.java
package com.training.ocp;

import java.util.Locale;
import java.util.ResourceBundle;
```

```
public class Test {
    public static void main(String[] args) {
        Locale.setDefault(new Locale("fr", "IT"));
        Locale loc = new Locale("en", "US");
        ResourceBundle rb =
         ResourceBundle.getBundle("com.training.ocp.MyResourceBundle",
          loc);
        System.out.println(rb.getObject("surprise"));
    }
}
```

What will be the result of compiling and executing Test class?

A - SURPRISE!

B - 1001

C - 12.64

D - MissingResourceException is thrown at runtime

Localization - 13

Below files are available for your project:

//1. ResourceBundle.properties k1=1 k2=2

//2. ResourceBundle_EN.properties k3=EN3 k4=EN4

//3. ResourceBundle_US.properties k2=US2 k3=US3

//4. Test.java

```
import java.util.Enumeration;
import java.util.Locale;
import java.util.ResourceBundle;

public class Test {
    public static void main(String[] args) {
        Locale loc = Locale.US;
        ResourceBundle bundle =
         ResourceBundle.getBundle("ResourceBundle", loc);
        Enumeration<String> enumeration = bundle.getKeys();
        while (enumeration.hasMoreElements()) {
            String key = enumeration.nextElement();
            String val = bundle.getString(key);
            System.out.println(key + "=" + val);
        }
    }
}
```

Assume that all the *.properties files are included in the CLASSPATH. What will be the output of compiling and executing Test class?

A -

```
k1=1
k2=2
k3=EN3
k4=EN4
```

B -

```
k3=EN3
k4=EN4
k1=1
k2=2
```

C -

```
k2=US2
k3=US3
k4=EN4
k1=1
```

D -

k1=1
k2=2
k3=EN3
k4=EN4
k2=US2
k3=US3

E -

k2=US2
k3=US3
k3=EN3
k4=EN4
k1=1
k2=2

Localization - 14

Which of the following will always represent Locale object for English in US? Select ALL that apply.

A - Locale l4 = Locale.getDefault();

B - Locale l3 = Locale.getInstance(“us”);

C - Locale l1 = Locale.US;

D - Locale l5 = new Locale(“en”, “US”);

E - Locale l2 = new Locale(Locale.US);

Localization - 15

Given code of Test.java file:

```
import java.text.NumberFormat;
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale loc = new Locale("en", "US");
        NumberFormat nf = NumberFormat.getCurrencyInstance(loc);
        System.out.printf("Amount %s is in %s" , nf.format(10),
         nf.getCurrency());
    }
}
```

What will be the result of compiling and executing above program?

A - Amount 10.00 is in US Dollar

B - Amount $10.00 is in USD

C - Amount $10.00 is in US Dollar

D - Amount 10.00 is in USD

Localization - 16

Which of the following correctly specifies the entries in resource bundle properties file?

A - country=Sri Lanka;continent=Asia

B -

```
country="Sri Lanka”
continent="Asia”
```

C - country=Sri Lanka:continent=Asia

D -

```
country=Sri Lanka
continent=Asia
```

Localization - 17

Given code of 3 Java files:

```
//1. MyResourceBundle.java
package com.training.ocp;

import java.util.ListResourceBundle;

public class MyResourceBundle extends ListResourceBundle {
    @Override
    protected Object[][] getContents() {
        Object [][] arr = {{"surprise", "SURPRISE!"}};
        return arr;
    }
}


//2. MyResourceBundle_en_CA.java
package com.training.ocp;

import java.util.ListResourceBundle;

public class MyResourceBundle_en_CA extends ListResourceBundle {
    @Override
    protected Object[][] getContents() {
        Object [][] arr = {{"surprise", 12.64}};
        return arr;
    }
}


//3. Test.java
package com.training.ocp;

import java.util.Locale;
import java.util.ResourceBundle;

public class Test {
    public static void main(String[] args) {
        Locale.setDefault(new Locale("fr", "IT"));
        Locale loc = new Locale("en", "US");
        ResourceBundle rb =
         ResourceBundle.getBundle("com.training.ocp.MyResourceBundle",
          loc);
        System.out.println(rb.getObject("surprise"));
    }
}
```

What will be the result of compiling and executing Test class?

A - MissingResourceException is thrown at runtime

B - 12.64

C - SURPRISE!

D - 1001

Localization - 18

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale l1 = new
         Locale.Builder().setLanguage("en").setRegion("US").build();
        Locale l2 = Locale.US;
        Locale l3 = new Locale("en");

        System.out.println(l1.equals(l2));
        System.out.println(l2.equals(l3));
    }
}
```

What will be the result of compiling and executing Test class?

A -

```
false
false
```

B -

```
true
false
```

C -

```
false
true
```

D -

```
true
true
```

Localization - 19

Given code of Test.java file:

```
import java.util.Locale;

public class Test {
    public static void main(String[] args) {
        Locale loc = Locale.ENGLISH;
        System.out.println(loc.getDisplayCountry());
    }
}
```

What will be the result of compiling and executing Test class?

A - en

B - English

C - United States

D - US

E - No text is displayed in the output

Localization - 20

Following resource bundle files are defined for the project:
ResourceBundle_CA.properties ResourceBundle_hi.properties
ResourceBundle_IN.properties ResourceBundle.properties

The default locale of the system is ‘fr_CA’

Which of the resource bundle will be loaded for Locale en_IN?

A - ResourceBundle_CA.properties

B - ResourceBundle.properties

C - ResourceBundle_IN.properties

D - ResourceBundle_hi.properties

Localization - 21

Consider below code:

```
import java.text.NumberFormat;

public class Test {
    public static void main(String[] args) {

        System.out.println(NumberFormat._____________________.format(5));
    }
}
```

The default locale of the system is ‘en_US’. Which of the options correctly fills the blank, such that output is $5.00?

A - getInstance()

B - getCurrencyInstance()

C - getiInstance(java.util.Locale.US)

D - getCurrencyInstance(java.util.Locale.US)

Localization - 22

Which of the following method a concrete class must override if it extends from ListResourceBundle?

A - abstract protected Object[] getContents();

B - abstract protected String[] getContents();

C - abstract protected String[][] getContents();

D - abstract protected Object[][] getContents();

Localization - 23

Assume that proper import statements are available, which of the following statements will compile successfully?

Select ALL that apply.

A - List list = Locale.getAvailableLocales();

B - Locale [] loc = Locale.getAvailableLocales();

C - Object [] locale = Locale.getAvailableLocales();

D - Map<String, String> map = Locale.getAvailableLocales();

E - Object [][] arr = Locale.getAvailableLocales();