MCQ on Regular Expressions

1 – Text Formatting

1. Which of these package is used for text formatting in Java programming language?

a) java.text

b) java.awt

c) java.awt.text

d) java.io

Answer: a

Explanation: java.text allows formatting, searching and manipulating text.

2. Which of this class can be used to format dates and times?

a) Date

b) SimpleDate

c) DateFormat

d) textFormat

Answer: c

Explanation: DateFormat is an abstract class that provides the ability to format and parse dates and times.

3. Which of these method returns an instance of DateFormat that can format time information?

a) getTime()

b) getTimeInstance()

c) getTimeDateinstance()

d) getDateFormatinstance()

Answer: b

Explanation: getTimeInstance() method returns an instance of DateFormat that can format time information.

4. Which of these class allows us to define our own formatting pattern for dates and time?

a) DefinedDateFormat

b) SimpleDateFormat

c) ComplexDateFormat

d) UsersDateFormat

Answer: b

Explanation: The DateFormat is a concrete subclass of DateFormat. It allows you to define your own formatting patterns that are used to display date and time information.

5. Which of these formatting strings of SimpleDateFormat class is used to print AM or PM in time?

a) a

b) b

c) c

d) d

Answer: a

Explanation: By using format string “a” we can print AM/PM in time.

6. Which of these formatting strings of SimpleDateFormat class is used to print week of the year?

a) w

b) W

c) s

d) S

Answer: a

Explanation: By using format string “w” we can print week in a year whereas by using ‘W’ we can print week of a month.

7. What will be the output of the following Java program?

import java.text.\*;

import java.util.\*;

class Date\_formatting

{

public static void main(String args[])

{

Date date = new Date();

SimpleDateFormat sdf;

sdf = new SimpleDateFormat("mm:hh:ss");

System.out.print(sdf.format(date));

}

}

Note : The program is executed at 3 hour 55 minutes and 4 sec (24 hours time).

a) 3:55:4

b) 3.55.4

c) 55:03:04

d) 03:55:04

Answer: c

Explanation: None.

8. What will be the output of the following Java program?

import java.text.\*;

import java.util.\*;

class Date\_formatting

{

public static void main(String args[])

{

Date date = new Date();

SimpleDateFormat sdf;

sdf = new SimpleDateFormat("hh:mm:ss");

System.out.print(sdf.format(date));

}

}

a) 3:55:4

b) 3.55.4

c) 55:03:04

d) 03:55:04

Answer: d

Explanation: The code “sdf = new SimpleDateFormat(“hh:mm:ss”);” create a SimpleDataFormat class with format hh:mm:ss where h is hours, m is month and s is seconds.

9. What will be the output of the following Java program?

import java.text.\*;

import java.util.\*;

class Date\_formatting

{

public static void main(String args[])

{

Date date = new Date();

SimpleDateFormat sdf;

sdf = new SimpleDateFormat("E MMM dd yyyy");

System.out.print(sdf.format(date));

}

}

a) Mon Jul 15 2013

b) Jul 15 2013

c) 55:03:04 Mon Jul 15 2013

d) 03:55:04 Jul 15 2013

Answer: a

Explanation: None.

10. What will be the output of the following Java program?

import java.text.\*;

import java.util.\*;

class Date\_formatting

{

public static void main(String args[])

{

Date date = new Date();

SimpleDateFormat sdf;

sdf = new SimpleDateFormat("z");

System.out.print(sdf.format(date));

}

}

b) Jul

c) Mon

d) PDT

Answer: d

Explanation: format string “z” is used to print time zone.

2 – Regular Expression

1. Which of the following is not a class of java.util.regex?

a) Pattern class

b) matcher class

c) PatternSyntaxException

d) Regex class

Answer: d

Explanation: java.util.regex consists 3 classes. PatternSyntaxException indicates syntax error in regex.

2. What is the significance of Matcher class for regular expression in java?

a) interpretes pattern in the string

b) Performs match in the string

c) interpreted both pattern and performs match operations in the string

d) None of the mentioned.

Answer: c

Explanation: macther() method is invoked using matcher object which interpretes pattern and performs match operations in the input string.

3. Object of which class is used to compile regular expression?

a) Pattern class

b) Matcher class

c) PatternSyntaxException

d) None of the mentioned

Answer: a

Explanation: object of Pattern class can represent compiled regular expression.

4. Which capturing group can represent the entire expression?

a) group \*

b) group 0

c) group \* or group 0

d) None of the mentioned

Answer: b

Explanation: Group 0 is a special group which represents the entire expression.

5. groupCount reports a total number of Capturing groups.

a) True

b) False

Answer: a

Explanation: groupCount reports total number of Capturing groups. this does not include special group, group 0.

6. Which of the following matches nonword character using regular expression in java?

a) \w

b) \W

c) \s

d) \S

Answer: b

Explanation: \W matches nonword characters. [0-9], [A-Z] and \_ (underscore) are word characters. All other than these characters are nonword characters.

7. Which of the following matches end of the string using regular expression in java?

a) \z

b) \\

c) \\*

d) \Z

Answer: a

Explanation: \z is used to match end of the entire string in regular expression in java.

8. What does public int end(int group) return?

a) offset from last character of the subsequent group

b) offset from first character of the subsequent group

c) offset from last character matched

d) offset from first character matched

Answer: a

Explanation: public int end(int group) returns offset from the last character of the subsequent group.

9. what does public String replaceAll(string replace) do?

a) Replace all characters that matches pattern with a replacement string

b) Replace first subsequence that matches pattern with a replacement string

c) Replace all other than first subsequence of that matches pattern with a replacement string

d) Replace every subsequence of the input sequence that matches pattern with a replacement string

Answer: d

Explanation: replaceAll method replaces every subsequence of the sequence that matches pattern with a replacement string.

10. What does public int start() return?

a) returns start index of the input string

b) returns start index of the current match

c) returns start index of the previous match

d) none of the mentioned

Answer: c

Explanation: public int start() returns index of the previous match in the input string.