Unit 6 - Week 5 - Vector indexing, factors, Data management with strings, display and formatting.

Assignment 5

Instruction: Color blue indicates output

1) Which one of the following is the correct outcome of the command print(1/3,digits=5)?   *1 point*

- ⚪ 0.3333
- ⚪ 0.333
- ⚪ 0.33333
- ⚪ None of these

Accepted Answers:
0.33333

2) Which one of the following is the correct outcome of the command print("My age is", (20+20)/3, "years.", digits=7)?   *1 point*

- ⚪ "My age is" 13.3333333 "years."
- ⚪ My age is (20+20)/3 years.
- ⚪ "My age is"
- ⚪ Error

Accepted Answers:
"My age is"

3) Which one of the following is the correct outcome of the command print("My college is"); print(20+30); print("years old.") ?   *1 point*

- ⚪ [1] "My college is" 50 "years old."
- ⚪ [1] "My college is"
  [1] 50
  [1] "years old."
- ⚪ [1] "My college is" 20+30 "years old."
- ⚪ Error

Accepted Answers:

[1] "My college is"
[1] 50
[1] "years old."

4) Let   x <- 'Introduction to R Software!\n' then which one of the following is the correct **1 point**
outcome of the commands print(x) and cat(x)?

○ [1] Introduction to R Software!\n
and
[1] Introduction to R Software!\n

○ [1] "Introduction to R Software!"
and
Introduction to R Software!\n

○ [1] "Introduction to R Software!\n"
and
Introduction to R Software!\n

○ [1] "Introduction to R Software!\n"
and
Introduction to R Software!

Accepted Answers:
[1] "Introduction to R Software!\n"
and
Introduction to R Software!

5) Which one of the following is the correct outcome of the command **1 point**
`print(paste("R Software", 10* 2:4))`?

○ `[1] "R Software 10*2" "R Software 10*3" "R Software 10*4"`

○ `[1] "R Software 20" "R Software 30" "R Software 40"`

○ `[1] "R Software 10*2  10*3   10*4"`

○ `[1] R Software 20 R Software 30 R Software 40`

Accepted Answers:
`[1] "R Software 20" "R Software 30" "R Software 40"`

6) Which one of the following is the correct outcome of the commands **1 point**
x <- 2
cat("The cube of", "x", "is", x^3, "and the square of x is", x^2, "!\n") ?

○ The cube of 2 is 8 and the square of 2 is 4 !

○ The cube of x is x^3 and the square of x is x^2 !

○ "The cube of" "x" "is" 8 "and the square of x is" 4!\n

○ The cube of x is 8 and the square of x is 4 !

Accepted Answers:
The cube of x is 8 and the square of x is 4 !

7) Which one of the following is the correct outcome of the command **1 point**
cat("The value of 4/3", "is approximately", format(4/3,digits=3),"\n") ?

○ "The value of 4/3 is approximately" 1.33

○ The value of 4/3 is approximately 1.333

○ The value of 4/3 is approximately 1.33

○ "The value of 4/3 is approximately 1.33"

Accepted Answers:
The value of 4/3 is approximately 1.33

8) Which one of the following is the correct outcome of the command   *1 point*
paste("R Course", "will start from", c("10 Jul 2017", "10 Jul 2018"), collapse=", and ") ?

   ◯ [1] "R Course will start from 10 Jul 2017, and 10 Jul 2018"

   ◯ [1] "R Course will start from 10 Jul 2017, and R Course will start from 10 Jul 2018"

   ◯ [1] "R Course will start from 10 Jul 2017, 10 Jul 2018"

   ◯ [1] "R Course will start from" "10 Jul 2017" and "10 Jul 2018"

Accepted Answers:
[1] "R Course will start from 10 Jul 2017, and R Course will start from 10 Jul 2018"

9) Which one of the following is the correct outcome of the command   paste("Solution of   *1 point*
problem", 1:3, sep="*") ?

   ◯ [1] "Solution of problem*1 problem*2 problem*3"

   ◯ [1] "Solution of problem 1 * problem 2 * problem 3"

   ◯ [1] "Solution of problem*1 and problem*2 and problem*3"

   ◯ [1] "Solution of problem*1" "Solution of problem*2" "Solution of problem*3"

Accepted Answers:
*[1] "Solution of problem*1" "Solution of problem*2" "Solution of problem*3"*

10) Which one of the following is the correct outcome of the command   paste("Solution of   *1 point*
problem", 2:4, sep="+",collapse="") ?

   ◯ [1] "Solution of problem+2Solution of problem+3Solution of problem+4"

   ◯
[1] "Solution of problem 2" + "Solution of problem 3" + "Solution of problem 4"

   ◯ [1] "Solution of problem+2+3+4"

   ◯
[1] "Solution of problem 2 + Solution of problem 3 + Solution of problem 4"

Accepted Answers:
[1] "Solution of problem+2Solution of problem+3Solution of problem+4"

11) Which one of the following is the correct outcome of y where   *1 point*
y=strsplit("Solution of problem 20-Solution of problem 30-Solution of problem 40","-") ?

   ◯ [[1]]
[1] "Solution of problem 20-30-40"

   ◯ [[1]]
[1]
y=strsplit("Solution of problem 20-Solution of problem 30-Solution of problem 40"

   ◯ [[1]]
[1] "Solution of problem 20" "Solution of problem 30" "Solution of problem 40"

   ◯ [[1]]
[1] "Solution of problem 20"-"Solution of problem 30"-"Solution of problem 40"

Accepted Answers:

[[1]]
[1] "Solution of problem 20" "Solution of problem 30" "Solution of problem 40"

12) Let   **1 point**
y=strsplit("Student A gets 20 marks- Student B gets 30 marks- Student C gets 40 marks","-")
Which one of the following is the correct command to get the outcome of y as "Student B gets 30
marks" ?

- ○ y[1][2]
- ○ y[2][2]
- ○ y[[1]][2]
- ○ [[2]][1]

Accepted Answers:
y[[1]][2]

13) Which one of the following is the correct outcome of the command   nchar("Was   **1 point**
Czechoslovakia or Czecho-Slovakia a sovereign state in Central Europe ?") ?

- ○ 66
- ○ 67
- ○ 75
- ○ 76

Accepted Answers:
76

14) Which one of the following is the correct outcome of the command   sub("25", "30", "R   **1 point**
Course will start from 25 July") ?

- ○ [1] "R Course will start from 25 July"
- ○ [1] "R Course will start from 30 July"
- ○ [1] "R Course will start from 25-30 July"
- ○ [1] "R Course will start from 25,30 July"

Accepted Answers:
[1] "R Course will start from 30 July"

15) Which one of the following is the correct outcome of the command   **1 point**
gsub("R Course", "S-plus Course", "R Course - 25 July. R Course - 30 July")?

- ○ [1] "S-plus Course - 25 July. S-plus Course - 30 July"
- ○ [1] " R Course - 25 July. R Course - 30 July"
- ○ [1] "R Course - 25 July." "S-plus Course - 30 July"
- ○ [1] "S-PLus Course - 25 July." "R Course - 30 July"

Accepted Answers:
[1] "S-plus Course - 25 July. S-plus Course - 30 July"

16) Which one of the following is the correct outcome of the command   tolower("R CoURse") ? **1 point**

- ○ R Course
- ○ "r course"
- ○ R course
- ○ r course

Accepted Answers:
"r course"

17) Which one of the following is the correct outcome of the command   toupper("R CourSES") ? *1 point*

○ [1] r cOURses

○ [1] r courses

○ [1] "R COURSES"

○ [1] R CourSES

Accepted Answers:
[1] "R COURSES"

18) Which one of the following is the correct outcome of the command   grep("ab", c("abc", "def", *1 point* "cbaba", "adaba")) ?

○ [1] "def"

○ [1] "abc", "cbaba", "adaba"

○ [1] 1 3 4

○ [1] 2

Accepted Answers:
[1] 1 3 4

19) Which one of the following is the correct outcome of the command   grep("[a-d]", letters) ?   *1 point*

○ [1] a-d

○ [1] a b c d

○ [1] a-b-c-d

○ [1] 1 2 3 4

Accepted Answers:
[1] 1 2 3 4

20) Which one of the following are the correct outcomes of the commands eval(344+465-697- *1 point* 1660+2898-1278) and eval("344+465-697-1660+2898-1278") ?

○ 72 and "344+465-697-1660+2898-1278" respectively.

○ 344+465-697-1660+2898-1278 and "72" respectively.

○ 72 and 344+465-697-1660+2898-1278 respectively.

○ 72 and "72" respectively.

Accepted Answers:
72 and "344+465-697-1660+2898-1278" respectively.