## Unit 5 - Week 4 - Data management with repeats, sorting, ordering, and lists

## **Assignment 4** Week - 1 - Basic 1) Which one of the following is the correct outcome of the command fundamentals, sort(c(20,50, 10, 30, 90,70, 80), decreasing = FALSE)? installation and use of software, data editing, 0 1 2 3 5 7 8 9 use of R as a calculator, functions 9875321 and assignments. 0 10 20 30 50 70 80 90 Week 2 - Use of R as a 90 80 70 50 30 20 10 calculator, functions and matrix operations, missing data and logical **Accepted Answers:** operators. 10 20 30 50 70 80 90 Week 3 - Conditional 2) Which one of the following is the correct outcome of the command executions and loops, sort (c(20,50, 10, 30, 90,70, 80), increasing = TRUE)? data management with sequences. 0 10 20 30 50 70 80 90 Week 4 - Data 90 80 70 50 30 20 10 management with 0 1 2 3 5 7 8 9 repeats, sorting, Error... ordering, and lists I ecture 18 - Data management : Lists **Accepted Answers:** Lecture 19 - Data management: Lists Error... (continued) 3) Which one of the following is the correct outcome of the command Lecture 20 - Data order(c(20,50, 10, 30, 90,70, 80), decreasing = FALSE)? management: Vector indexing 0 1 2 3 4 5 6 7 Lecture 21 - Data 0 1 4 3 2 5 7 6 management: Vector 0 3 1 4 2 6 7 5 Indexing (continued) 0 3 1 4 5 7 6 2 Lecture 22 - Data management: Factors Lecture 23 - Data management: factors **Accepted Answers:** (continued) 3 1 4 2 6 7 5 Quiz: Assignment 4 4) Which one of the following is the correct outcome of the command Assignment-4 mode(c(1, 2, "3", 8+9, "7+9", 6.7, 110\*45))? Solution Character Week 5 - Vector numeric indexing, factors, O list Data management with strings, display data frame and formatting. Week 6 - Data management with **Accepted Answers:** display paste, split,

5) Which one of the following is the correct outcome of the command  $\mathbf{x}$  [[2]] where

 $x \leftarrow list (c("name1", "name2"), seq(from=5, to=7), rep(8:10, each=2))?$ 

find and replacement, manipulations with alphabets, evaluation

Introduction to R Software - - Unit 5 - Week 4 - Data management with repeats, sorting, ordering, and lists of strings, data frames. 99 5 6 7 Week 7 - Data frames, import of external "name2" data in various file formats, statistical functions. compilation of data. **Accepted Answers:** Week 8 - Graphics 5 6 7 and plots, statistical 6) Which one of the following is the correct outcome of the command x[[2]][2] where 1 point functions for central tendency, variation, x <-list (c("name1", "name2"), seq(from=5, to=7), rep(8:10, each=2))</pre> skewness and gives an output as kurtosis, handling of bivarite data through O 5 6 7 graphics, correlations, 6 programming and 99 illustration with "name2" examples. **Accepted Answers:** 7) Which one of the following is the correct outcome of the command x[2][2] where 1 point x < -1ist (c("name1", "name2"), seq(from=5, to=7), rep(8:10, each=2))? 0 5 6 7 6 99 O "NULL" **Accepted Answers:** 8) Which one of the following is the correct outcome of the command x[[3]] where 1 point x <-1ist (c("name1", "name2"), seq(from=5, to=7), rep(8:10, each=2))? 8 8 9 9 10 10 0 8 9 10 8 9 10 0 10 10 9 9 8 8 **Accepted Answers:** 8 8 9 9 10 10 9) Which one of the following is the correct outcome of the command x [ (x>50) ] where 1 point  $x \leftarrow c(10, 75, 20, 35, 30, 40, 180, 50, 60, 27, 70, 67, 80, 50, 39, 120)$ ? 75 180 60 70 67 80 120 0 10 20 35 30 40 27 39 ○ TRUE FALSE **Accepted Answers:** 75 180 60 70 67 80 120 10)Which one of the following is the correct outcome of the command x[(x - 20 > 40)] where 1 point  $x \leftarrow c(10, 75, 20, 35, 30, 40, 180, 50, 60, 27, 70, 67, 80, 50, 39, 120)?$ 0 10 20 35 30 40 50 27 50 39 75 180 70 67 80 120 NULL None of these **Accepted Answers:** 

75 180 70 67 80 120

```
11) Which one of the following is the correct outcome of the command x[(x^2 + 10 > 50)] where
        x < -c(40, 25, 80, 45, 39, 43, 120, 20, 70, 87, 170, 167, 180, 150, 139, 120)?
    80 45 43 120 70 87 170 167 180 150 139 120
   75 180 70 67 80 120
   40 25 80 45 39 43 120 20 70 87 170 167 180 150 139 120

    80
    120
    70
    87
    170
    167
    180
    150
    139
    120

  Accepted Answers:
  40 25 80 45 39 43 120 20 70 87 170 167 180 150 139 120
 12) If y \leftarrow 10:20 then which one of the following is the correct outcome of the command y[-(1:9)]?
                                                                                                1 point
   -19 -20
   19 20
   10 11 12 13 14 15 16 17 18
   -10 -11 -12 -13 -14 -15 -16 -17 -18
  Accepted Answers:
  19 20
 13)Consider the list z < - list(x1 = "name1", x2 = 10:15). Which of the following is the correct command 1 point
to change the element x2 by y2?
   names(z)[2]= y2
   names(z)[2]= "y2"
   change.names(z)[2]= "y2"
   name.change(z)[2]= "y2"
  Accepted Answers:
  names(z)[2]= "y2"
 14)Consider the list z <-list(x1 = "name1", x2 = 10:15). Which one of the following is the correct outcome 1 point
of the command z["x2"] ?
   [1] "name1"
   [1] "10:15"
   [1] 15 14 13 12 11 10
   [1] 10 11 12 13 14 15
  Accepted Answers:
  [1] 10 11 12 13 14 15
 15) Which one of the following is the correct outcome of the command factor(c(1,1,2,2,3,3))?
                                                                                                1 point
   [1] 1 1 2 2 3 3
   Levels: 1 2 3
    [1] 1 2 3
   Levels: 1 2 3
   [1] 1 2 3
   Levels: 1 1 2 2 3 3
   None
  Accepted Answers:
  [1] 1 1 2 2 3 3
  Levels: 1 2 3
 16)Which one of the following is the correct outcome of the following commands?
                                                                                                1 point
       data = c(1,1,2,2,3,3)
       factor (data)
       levels(data) = c('I','II','III')
       data
   [1] 1 1 2 2 3 3
   attr(,"levels")
   [1] "I" "II" "III"
```

```
[1] 1 2 3
   attr(,"levels")
   [1] "I" "II" "III"
   [1] I I II II III III
  Levels: 1 2 3
   None of these
 Accepted Answers:
 [1] 1 1 2 2 3 3
 attr(,"levels")
 [1] "I" "II" "III"
 17)Which one of the following is the correct outcome of the command
                                                                                         1 point
       x=factor(c(1,2,2,5,1,2,1,5),levels=c(1,2,5),ordered=TRUE)?
   [1] 1 < 2 < 5
  Levels: 1 2 2 5 1 2 1 5
   [1] 1 2 5
  Levels: 1 2 2 5 1 2 1 5
   [1] 1 2 2 5 1 2 1 5
  Levels: 1 < 2 < 5
   None of these
 Accepted Answers:
 [1] 1 2 2 5 1 2 1 5
 Levels: 1 < 2 < 5
 18)Which one is the correct outcome of the command
                                                                                         1 point
       factor( c(rep("male",2), rep("female", 3)))?
   [1] female female female male male
  Levels: female male
   [1] female female male male male
   Levels: female male
   [1] male male female female
  Levels: female male
   [1] male male female female female
  Levels: female male
 Accepted Answers:
 [1] male male female female
 Levels: female male
 19)Which one of the following is the correct outcome of the command
                                                                                         1 point
unclass(factor(c("lemonade","juice","water","juice","lemonade"),levels=c("juice","lemonade","wate
   [1] 2 1 3 1 2
  attr(,"levels")
   [1] "juice" "lemonade" "water"
   [1] 2 3 1 3 2
   attr(,"levels")
   [1] "juice" "lemonade" "water"
   [1] 2 1 3 1 2
  attr(,"levels")
   [1] " lemonade" "juice" "water"
   [1] 1 3 2 3 1
   attr(,"levels")
   [1] " lemonade" "juice" "water"
 Accepted Answers:
 [1] 2 1 3 1 2
 attr(,"levels")
 [1] "juice"
                "lemonade" "water"
 20)Which one of the following is the correct outcome of the command
                                                                                         1 point
       as.factor(c(1, 2, 2, 3, 3, 3))?
```

```
[1] 1 2 3
Levels: 1 2 3
[1] 3 2 2 1 1 1
Levels: 1 2 3
[1] 1 2 2 3 3 3
Levels: 1 2 3
[1] 1 2 2 3 3 3
Levels: 3 2 1

Accepted Answers:
[1] 1 2 2 3 3 3
Levels: 1 2 3
```