Info viz exam 21.5.2018

These are from my memory, the exam paper had to be returned

Question 1.
        Explain briefly:

        a) pre-attentative features
        b) data-ink
        c) ???
        d) CIE XYZ and CIELUV
        e) visual attention
        f) reference region (vizualisation technique)

Question 2.
        a) Explain opponent colors theory
        b) How can different coloring schemes be used in information vizualisation.
           Do you have to take opponent colors somehow into account?
        c) Explaing pros and cons of both spectral scheme and grayscale.

Question 3.
        a) What are Gestalt laws and how are they related to information visualization
        b) List at least 6 Gestalt laws and explain them

Question 4.
        Timeseries of 6 years of average day temperatures in Otaniemi. How would you visualize (give also scetches in addition to explaining in writing)
        a) How would you visualize the data using superimposition
        b) How would you visualize the data using small multiples
        c) Compare the pros and cons of these two techniques

Question 5.
        Essay, choose either a or b.
        a) History of data graphics
        b) Data Dimensionality techniques and how they are used, pros and cons, and how are they validated.