

## **CHEM-E4130: CHEMISTRY OF ELEMENTS**

**Remote On-line Exam: Thursday Dec. 10<sup>th</sup>, 2020, at 9.00-12.00**

### **SOME INSTRUCTIONS**

You will get the exam questions from MyCourses as a word file. The file will be uploaded at 9.00 in MyCourses (in a way similar to the lecture exercise questions previously, except that now as a word file). You should preferably answer to the same file, then rename it so that it contains your family name as well, and return it to the specific return box in MyCourses by 12.00, either as a word file or a pdf file.

During the exam hours I will try to keep Zoom open so that you can ask if you have any questions, technical issues, etc. Alternatively, you can send an email to me.

There will be five questions (many of them consisting of several sub-questions), each evaluated in the scale 0-10 points. You will be given all the needed “tabulated” data etc. including the Periodic Table, if needed. Some of the questions may require some simple drawings which you may answer by drawing on a paper and then inserting the drawing into your answer file. You may also need to use a calculator for some simple calculations. Otherwise no additional tools/information should be needed.

The questions are based on the lectures given in Zoom, lecture slides, lecture exercises, student seminars and seminar slides.

The questions are made so that they test your understanding. Accordingly, you do not benefit very much just by trying to copy-paste some sentences directly from lecture slides or internet. Answer with your own words, and for questions requiring some explicit answer (for example number, name of element, etc.), also explain/give reasons/justify your answer (to get the maximum points) !!!

Please let me know already beforehand if there is anything unclear for you.

Best wishes,

Maarit Karppinen

Dec. 6<sup>th</sup>, 2020