Instructions and Rules for

DSV SU
Network Security (NetSec)
Spring Term 2022

Written Exam

2021-03-16   9:00 am – 13:00 pm (4 hours)

The exam will be an open-book, distance exam. This document covers the environment and tools, the exam questions, matters needing attention when writing answers, and grading criteria about the exam.

Exam environment and tools

iLearn and Zoom meeting will be used for the exam.

Every student will be put into his own Breakout room in Zoom (i.e., only one student and the invigilators). A Zoom link will be sent to each student two days before the exam. Students should

1. Turn on the video of the Zoom meeting during the whole exam.

2. Share full screen of the Zoom meeting during the whole exam.

3. Students may be asked to show their desks/writing areas before the exam, or during the exam when invigilators think something is suspect.

4. Log into the Zoom meeting 30 minutes before the start of the exam, waiting for the invigilators to check their ID and position of camera, in order to ensure the start of the exam in time. No extra time will be given if the delay is caused by the students themselves.

    The invigilators may check a student's ID during the exam when they think necessary, e.g., when the student leaves the place or the meeting is interrupted etc.

    The webcam may be put in front or back, invigilators may ask students to adjust the position before or during the exam.

5. Students may leave their place with the permission of the invigilators, with the Zoom meeting and video on.

iLearn will be used for questions' release and submission. "Quiz" and "Assignment" module will be used for multi-choice and essay questions respectively. Students may use their favorite browsers for iLearn.

Interpretation of "open-book" exam

Though the exam is an "open-book" exam, there are some restrictions about the documents that a student may or may not use during the exam.

1. Only the documents given in the exam portal are allowed during the exam. The documents are in PDF format, which are copies from iLearn under lectures and labs, including the lecture slides.

   For convenient, students may download these files to their own machines in advance. But the files should keep the original names in iLearn, and be put in a separate directory, distinguished from other local file in each student's machine.

2. Students may use e-book or physical course book during the exam. Notes taken by students themselves are allowed, both e-version and physical version, but should be put in the same directory with the downloaded files, and should be named explicitly, e.g., with "notes" so that invigilators may know and will not ask to check the files.

3. Physical dictionary is allowed. E-dictionary is allowed, but only if it is an offline app. In other words, online dictionary that needs a browser is not allowed.

4. Any form of discussions among students are absolutely forbidden.

5. The machine/computer running Zoom is the only device allowed during the exam. No second computer/electronic device is allowed during the exam.

   Invigilators may require to check the documents if they suspect the documents are not those allowed in the exam.

Exam questions

The questions consist of two parts:

1. The first part is twenty-five multi-choice and fifteen true-false questions, which lasts for 2 hours. Namely, the questions will be released at 9:00 am and **closed at 11:10 am** (10 extra minutes will be given for potential submission problems. After the closing time, the system is so configured that no submissions will be accepted.

2. The second part is the two essay questions. The problems will also be released at 9:00 am. But the submission deadline is 13:00 pm. 10 extra minutes for potential submission delay/problems will be given. Namely the system will be closed at 13:10 pm, after 13:10 pm no submission is possible in iLearn. But the timestamp for submissions after 13:00 pm will be checked. Only when the file with a timestamp before 13:00 pm will be graded (if there is problem with the timestamp or no timestamp, the submission time recorded in the system will be used). You are strongly recommended to finish your submissions before 13:00 pm.

Writing Instructions

1. Students should write the answers in their own words based on their understanding to the questions. Copying from any document is strictly forbidden. Even when they think the text in the course book/document can well answer the questions, **copying texts from any kind of documents (including the texts in the book, given documents, or in the web) are not accepted.** Depending on the amount of the copied text, the answers may not be graded or heavily affect the grade.

2. Students should learn to draw and be able to include figures into the answers in their submitted files (PDF files). However, figures can be a separate file submitted in iLearn.

3. For essay questions, only answers written in English will be graded.

4. Other suggestions:

   ➢ You may use your favorite editor to edit your files, such as MS word, or OpenOffice etc., which allow you to draw figures and generate PDF files for submission (just like writing and submitting your assignment!). However, if you are really not familiar with drawing figures in the editor, you may draw your figure on a piece of paper and try to upload the figures to iLearn. Pictures with the following forms can be accepted by iLearn:
   .bmp .gdraw .gif .ico .jpe .jpeg .jpg .pct .pic .pict .png .svg .svgz .tif .tiff

   ➢ Understand the problems and the questions.

   ➢ Wherever you are unclear on the premises for a question, clearly document any assumptions that you make in your answer.

   ➢ Format properly your document so that examiners can read clearly (e.g., in proper paragraphs etc.).

   ➢ Write with clear use of language. Answers that are difficult to read will not be marked.

   ➢ Please note that the essay questions call for you to provide a comprehensive and deep understanding of the questions. You should not give only a fact, result or conclusion. Comprehensive analysis and reasoning of the fact, result or conclusions are necessary. Your answers should be well organized so as to convey all the key points regarding a problem logically.

   You should not make your answers so brief as to leave the examiner guessing

at what you are describing. Nor should they be so scrambled as to cloud the key points related with the problem.

Submission

The completed exam answers are to be submitted via iLearn.

The multi-choice and true-false questions are submitted like quizzes in iLearn. You may review your selections and correct/change your selections before final submission. But only one attempt is allowed.

The essay questions will be submitted like an assignment, only PDF files are accepted as uploaded hand-ins. Such PDF files must be generated and submitted before the hand-in deadline. Students may upload and replace versions of their PDF files so as to avoid the danger of time running out before the answers have been uploaded. Only when students have explicitly submitted their uploaded answers, or once they are automatically submitted as the problem deadline passes, will the hand-in be locked so as to prevent further updates.

Please name your file with your full names registered in iLearn, like Q1-Bob Smith, Q1-Bob Smith-Figure.

Maximum 3 files are allowed to be submitted for each essay question (answer+figures).

Grading

The grading process will involve the plagiary check and marking of the written answers according to the grading criteria.

The exam consists of 25 multi-choice questions (25 points, 1 point for each question) and 15 true-false questions (15points, 1 point for each question) and 2 essay questions (20 points for each). There are 80 points altogether. In order to pass the exam, you are expected to attain at least 40 points. Below is the grading matrix.

Grade	Points (Percentage)
A	72.00 p ≤mark≤ 80.00 p; 90%-100%
B	64.00p ≤mark<72.00 p; 80%-90%
C	56.00 p ≤mark< 64.00 p; 70%-80%
D	48.00 p ≤mark< 56.00 p; 60%-70%
E	40.00 p ≤mark< 48.00 p; 50%-60%
F	mark <40.00 p

Grading criteria for multi-choice/true-false questions:

For each multi-choice question, only when all the correct choices are selected, you will get one point for that question. Otherwise, you will get zero point.

The questions with only one choice (i.e., single-choice) will be indicated with "select one".

General grading criteria for essay questions:

1. How much percentage of the key points about each question is answered correctly and clearly.

2. If the answer about a certain point communicates good understand of the problem and gives a complete, balanced and insightful answer.

3. How well the answer about a certain point can solve the problems in a question.

4. If the answer about a certain point communicates understanding of the terms and concepts involved.

The suspected copying and cheating (according to UrKund) in the NetSec exam will not be graded.

Others

Students may use "chat" of the Zoom to contact with the invigilators about the environment, such as asking permission to leave during the exam etc.

A forum will be available in iLearn allowing students to write messages. The staff will make every effort to address your issues, though some delays may be inevitable (we will try to limit the delay within 20 minutes, but it depends also on the number of the messages from the students). But try to ask questions as early as possible.

For private questions, you may contact the teacher by email: yuhongli@dsv.su.se

Important note on re-sits

Students who do not pass this exam have right to take resits until a pass is achieved. You will not be penalised for failing an exam and re-sitting it later. Therefore, you may select to re-sit the exam at a later time.

Resits will be at the same level, and conducted in the same conditions/mode as the regular exam. Normally, the resits will be held in May and August.

Please ensure your computer and networks work properly.

Summary of the key points

1. You may only use the following tools or take the following actions during the exam:

    Online:

    ➢ a browser with ilearn;
    ➢ email, but only to contact teachers;
    ➢ Zoom chatting with invigilators;
    ➢ for submitting figures

> ➢ reading PDF files given in the exam portal.

Offline:

> ➢ a PDF reader for e-book and the allowed documents;
> ➢ Your notes in WORD or PDF format;
> ➢ editor for writing answers, including drawing figures;
> ➢ E-dictionary

2. The deadline for multi-choice/true-false questions is 11:00 am (11:10am is the absolute deadline).

3. No copying of any kind of texts. The suspected copying and cheating (according to UrKund) in the NetSec exam will not be graded.

4. Log into the zoom meeting 30 minutes before the start of the exam, namely at 8:30 am.

These instructions may be altered and refined in the coming days, as issues arise and details become clearer.