Final Exam - Review

COMP9337/9447

T1 2022

Schedule

- COMP4337/9337 Written
- Date/Time/Location: Wed 11.05.2022/ Afternoon (1 pm – 3 pm)/ Moodle
- Instructions: see next foil

Material Covered in Final Exam

- **Lecture topics covered:**
  - Course Intro
  - Wireless Comms and Security Overview
    - no need to know the detailed structure of SHA/HMAC, Feistal function/structure, DES structure.
  - RSA/DH, CA, SSL, Kerberos
  - Network Layer Security, IPsec,
  - EAP, WLAN 802.1X Authentication
  - Broadcast Authentication
  - Bluetooth Security
  - **Firewall, DNS Exfiltration**
  - EPRI Security Architecture (full document)
  - NIST.SP.800-207 (only section 1. Intro 2. Zeor Trust Basics 3. Logical Component)
- **Optional topics Not examinable:**
  - Blockchain, Ian Yip and Tony Vizza's guest lectures

Material in Final Exam (contd.)

No direct question on lab commands/programs but design concepts learnt in labs would be useful in answering some questions.

Assignment/Project: No programming in exam but concepts of protocol design either in Assignment/Project or in general covered in other parts of the syllabus.

No MCQ questions.

Exam Format

- Open book: only printed lecture material, Text books.
- Screen saving, sharing or posting these questions online including on class Teams is prohibited.
- Please do not discuss these questions on Teams channels publicly.
- For each question you will need to upload picture of handwritten solution and need to have paper/pen etc. This is similar to the practice exam.
- This is worth **30** marks towards your final grade.
- There will be a number of questions (some with parts a, b, c) that will provide scenarios and ask you to design protocols, check if a given design is correct, identify security problems etc.
- You should have a good grasp of basic crypto mechanisms, key distribution techniques, and various attacks etc. as learnt through both lectures, discussions and labs. A small part may go beyond notes, i.e. if you aspire to get HD ☺
- **Note:** *A double pass is applicable to this course where students must achieve 40% in the combined Quiz1 + Quiz2 + final exam to pass this subject. Students achieving less than 40% i.e. 24/60 marks (Quiz1 - 10%, Quiz 2 - 20 % and Final exam 30%), will have their final total marks capped to a maximum of 50 (Pass)*

Sample Questions

We have provided practice questions on Moodle. Please attempt them first. This also gives you opportunity to be ready for exam in terms of Moodle based submission.

FIT TO SIT

- By sitting or submitting the exam on the scheduled assessment date, a student is declaring that they are fit to do so and cannot later apply for Special Consideration.
- If, during an exam a student feels unwell to the point that they cannot continue with the exam, they should take the following steps:

1. Stop working on the exam and take note of the time
2. If the Course Coordinator or Tutor is present online during the assessment in chat, make contact immediately and advise them that they are unwell
3. Immediately submit a Special Consideration application saying that they felt ill during the exam and were unable to continue
4. If they were able to advise the Course Coordinator or Tutor of the illness during the assessment, attach screenshots of this conversation to the Special Consideration application

TECHNICAL ISSUES

- If students experience a technical issue, they should take the following steps:
1. Take screenshots of as many of the following as possible:
2. error messages
3. screen not loading
4. timestamped speed tests
5. power outage maps

- All screenshots must include the date and time the issue occurred.
- They must contact the Course Coordinator or Tutor via email, Moodle or chat to advise that they are experiencing a technical issue, as soon as possible.
- They must submit a Special Consideration application immediately at the conclusion of the assessment and upload the screenshots.

Thank You

- And good luck with final exams.