

Name of Candidate: _____

Student ID: _____

Signature: _____

THE UNIVERSITY OF NEW SOUTH WALES
COMP3331/93331 T3, 2019
Computer Networks and Applications
Mid-term Examination

INSTRUCTIONS TO CANDIDATES:

- (1) Time allowed: 1 hours 15 minutes (there is no separate reading time).
- (2) Total number of pages: 5 (including this cover page).
- (3) Total number of questions: 5. You must answer all questions. Questions are of different value. Marks are as indicated. This examination makes up **20 marks** of your final mark for this course.
- (4) Do not write your answers on this paper. This paper *must be returned* at the end of the examination.
- (5) **IMPORTANT: There are two versions of Question 5, one for COMP3331 (undergraduate) students and the other for COMP9331 (postgraduate) students. Please attempt the correct version. You may lose all marks for the question if you solve the incorrect version.**
- (6) Note that if the question asks you to derive a result or perform some calculations, it is important for you to show us your intermediate steps and tell us the arguments that you have made to obtain the result. You need to note that both the intermediate steps and the arguments carry marks. Please note that we are **not** just interested in whether you can get the final numerical answer or conclusion right, but we are **more** interested to find out whether you understand the subject matter. We do that by looking at your intermediate steps and the arguments that you have made to obtain the answer. Thus, if you can show us the perfect intermediate steps and the in-between arguments but got the numerical values wrong for some reason, we will still award you marks for having understood the subject matter.
If the question asks you to give an explanation, you should aim to give a succinct and to the point answer.
- (7) This is a closed book exam. UNSW approved calculators are allowed.
- (8) Write all answers in **ink** except where they are expressly required. Pencils may be used only for drawing, sketching or graphical work.
- (9) **Tear off the last page of this booklet and provide anonymous feedback.**
- (10) For **Questions 2 – 5**, if you do not wish your answer for a question to be marked, write **0.5 SYMPATHY MARK PLEASE** in the answer booklet for the question. If you do this, you will be awarded 0.5 sympathy mark and your answer for that question will not be marked. **Sympathy marks apply for the entire question and not sub-parts.**

GOOD LUCK AND MAY THE FORCE BE WITH YOU

Question 1 Hodge Podge: Answer in 2-3 sentences at most (4 marks: 1 mark for each)

a)

b)

c)

d)

Question 2 Performance question, this is (4 marks)

Consider the network in the figure to the right, blah blah.

Some basic math involved. A calculator would be useful.

(a) Compute something

(b) Compute something

Figure 1: Figure for Question 2

(c) Compute something

Question 3 Another performance question, this is (4 marks)

Consider a blah blah ...

- (a) Assume blah and compute blah
- (b) Assume blah and compute blah.
- (c) Assuming blah and compute blah
- (d) Assume blah and compute blah

Question 4 Reliability (4 marks)

- (a) Consider blah in Figure 2. blah blah. Explain your answer briefly.
- (b) Consider blah in Figure 2. blah blah. Explain your answer briefly
- (c) Consider Figure 2 again. Suppose blah. Answer blah.
- (d) Consider Figure 2 again. Blah blah blah.

Figure 2: Figure for Question 4

Question 5 Numbers, Numbers and Numbers (4 marks)

SOLVE ONE OF THE FOLLOWING DEPENDING ON YOUR ENROLLMENT. YOU MAY RECEIVE ZERO MARKS IF YOU ATTEMPT THE INCORRECT VERSION.

COMP3331 (UNDERGRADUATE VERSION)

4 things to do here

COMP9331 (POSTGRADUATE VERSION)

4 things to do here

END OF EXAM.

THIS FEEDBACK IS ANONYMOUS. DO NOT WRITE YOUR NAME. TEAR OFF THIS PAGE AND RETURN SEPARATELY. WE APPRECIATE YOUR COMMENTS.

List one thing you liked about this course and would like to see more of or see continued (any topic – lectures, labs, assignments, tutorials, tutors, topics covered or not covered, etc., etc.):

List one thing you would like to have changed or have improved about this course:

Any other comments that you may have regarding the course:

TEAR THIS PAGE AND RETURN IT SEPARATELY