

Name of Candidate: \_\_\_\_\_

Student ID: \_\_\_\_\_

Signature: \_\_\_\_\_

**THE UNIVERSITY OF NEW SOUTH WALES**  
**COMP3331/93331 S1, 2017**  
**Computer Networks and Applications**  
**Mid-session Examination Template**

**INSTRUCTIONS TO CANDIDATES:**

- (1) Time allowed: 1 hours 30 minutes (there is no separate reading time).
- (2) Total number of pages: 7 (including this cover page).
- (3) Total number of questions: 6. 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) **Tear off the last page of this booklet and provide anonymous feedback to receive 0.5 BONUS mark. The marks will be capped at 20. Return the feedback page separately.**
- (5) Do not write your answers on this paper. This paper *must be returned* at the end of the examination.
- (6) **IMPORTANT: There are two versions of Question 6, 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.**
- (7) 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.
- (8) This is a closed book exam. UNSW approved calculators are allowed.
- (9) Write all answers in **ink** except where they are expressly required. Pencils may be used only for drawing, sketching or graphical work.
- (10) For **Questions 2 – 6**, 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 (3 marks: 1 mark for each question)**

**Note: Answer these questions in a concise manner. A few sentences (2-3) should suffice.**

**Question 2 (3 marks)**

Hint: Have you read up on different ways to do switching?

**Question 3 (3 marks)**

Hint: Think queueing, packet loss.

**Question 4 (3 marks)**

Hint: Something to do with name resolution

**Question 5 (4 marks)**

Hint: Reliable .....

**Question 6 (4 marks)**

Hint: Think TCP

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

**COMP3331 (UNDERGRADUATE VERSION)**

**COMP9331 (POSTGRADUATE VERSION)**

**END OF EXAM. SEE ADJOINING PAGE FOR BONUS 0.5 MARK**

**BONUS 0.5 MARK FOR FILLING THIS**

**NOTE:** YOU CAN RECEIVE BONUS 0.5 MARK BY TEARING THIS PAGE AND PROVIDING FEEDBACK. HOWEVER, MAXIMUM MARKS WILL BE CAPPED AT 20 MARKS.

**THIS FEEDBACK IS ANONYMOUS. DO NOT WRITE YOUR NAME. WE WILL AWARD YOU THE 0.5 MARK IF THIS PAGE IS TORN OFF FROM THIS BOOKLET.**

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**