

NATIONAL UNIVERSITY OF SINGAPORE

SCHOOL OF COMPUTING

MID-TERM TEST
AY2020/21 Semester 1

CS1231/CS1231S — DISCRETE STRUCTURES

3 October 2020

Time Allowed: 1 hour 30 minutes

INSTRUCTIONS

1. This assessment paper contains **TWENTY TWO (22)** questions (excluding question 0) in **THREE (3)** parts and comprises **EIGHT (8)** printed pages.
2. Answer **ALL** questions.
3. This is an **OPEN BOOK** assessment.
4. The maximum mark of this assessment is 50.
5. You are to submit a **single pdf file** (size \leq 20MB) to your submission folder on LumiNUS.
6. Your submitted file should be named after your **Student Number** (eg: A1234567X.pdf) and all pages of your file should contain your Student Number as well.
7. Limit your answers to **TWO pages** if possible, or at most THREE pages.
8. Do not write your name in your submitted file.

——— **END OF INSTRUCTIONS** ———

You do not need to answer question 0. Your tutor will check its correctness.

0. (a) Does my submission folder consist of a **single pdf file**? [1 mark]
 (b) Is my file named correctly, i.e. with my **Student Number** (eg: A1234567X.pdf)? [½ mark]
 (c) Have I written my Student Number on EVERY PAGE of my submitted file? [½ mark]

Part A: Multiple Choice Questions (Total: 14 marks)

Each multiple choice question (MCQ) is worth two marks and has exactly **one** correct answer. You are advised to write your answers on a **single line** to conserve space. For example:

1 A 2 B 3 C 4 D ...

Please write in **CAPITAL LETTERS**.

1. ...

Part B: Multiple Response Questions [Total: 24 marks]

Each multiple response question (MRQ) is worth two marks and may have one answer or multiple answers. Write out **all** correct answers. For example, if you think that A, B, C are the correct answers, write A, B, C. Only if you get all the answers correct will you be awarded two marks. **No partial credit will be given for partially correct answers.**

You are advised to write your answers on **at most two lines** to conserve space. For example:

8 A,B 9 B,D 10 C 11 A,B,C,D ...

Please write in **CAPITAL LETTERS**.

8. ...

Part C: There are 3 questions in this part [Total: 10 marks]

20. ...

21. ...

22. ...

=== END OF PAPER ===