

Numerical Analysis — FMNF05 — Tenta 2019/03/21

The exam lasts 4 hours and has 3 sections in 4 pages.

A minimum of ?? points out of the total ?? are required to get a passing grade.

Justify all your answers and write down all steps (unless it is a True/False or Yes/No type question). Correct answers without justification will receive a 0

During the exam you are allowed one page (both sides) with hand-written notes.

No calculators, textbooks, lecture notes or any other electronic or written material is allowed.

Section A. (10 pts) True/False or Yes/No Section.

No justification needed. Just write True or False or Yes or No after each question.

- | | |
|---------------|-----------|
| A.1 | (T / F) |
| A.2 | (T / F) |
| A.3 | (Y / N) |
| A.4 | (T / F) |
| A.5 | (T / F) |
| A.6 | (T / F) |
| A.7 | (Y / N) |
| A.8 | (T / F) |
| A.9 | (Y / N) |
| A.10 . | (T / F) |

Section B. (20 pts) Very short explanation! Some solving/plotting may be needed. One to two sentences in some cases should be sufficient to explain your reasoning.

B.1

B.2

B.3

B.4 .

B.5

B.6

B.7

B.8

B.9

B.10

Section C. Problems in pages 3 and 4 must be worked out completely to receive any credit.

1. (4p)
2. (5p)
3. (5p)
4. (4pts)
 - (a)
 - (b)
5. (4pts)
 - (a)
 - (b)
 - (c)

6. (4p)

1.

2.

7. (4pt)

8. (4pts)

a)

b)

c)

d)

9. (4pts)

(a)

(b)

10. (3pts)