



Class test 3 CMPG34 2022

Operating systems (North-West University)



Scan to open on Studocu

Naam & Van <i>Name & Surname</i>								
Studentenommer <i>Student Number</i>								

CMPG324: Klastoets 3 / *Class Test 3*

[27]

- 3.1 Gebruik 'n diagram om die proses wanneer 'n rekenaar "boot" te illustreer. Gebruik die basiese uitleg van 'n tipiese lêerstelsel om aan te dui waar die kode vir elke stap op die skyf geleë is. Toon ook al die betrokke toestelle.

Use a diagram to describe the process followed when a computer boots. Use the basic layout of a typical file system to indicate where the code for each step is located on the disk. Also show all of the devices involved.

[11]

3.2 Vir enige 6 van die blokke wat in 3.1 gewys is, verduidelik kortliks wat sal gebeur as daardie blok beskadig word.

For any 6 of the blocks shown in 3.1, briefly explain what would happen if that block is corrupted.

[6]

[illegible]

Instruksies

- **Lees die instruksies noukeurig deur!**
- Elke bladsy bevat 'n gebied waar u die antwoord moet verskaf, asook 'n gebied wat u kan gebruik vir u berekeninge en ander rofwerk. **Slegs u antwoorde wat in die antwoordafdeling as antwoorde verskaf word, sal gemerk word.**
- Maak seker dat u netjies skryf – as die merker nie kan lees wat u geskryf het nie, mag dit verontagsaam word.
- Antwoorde moet in pen wees.
- **As die vraag vereis dat die antwoord in 'n bepaalde formaat moet wees, moet die antwoord in daardie formaat wees.**

Instructions

- **Carefully read the instructions!**
- Each sheet contains an area where you must provide the answer, as well as an area which you can use for your calculations and other rough work. Only your answers that are provided as answers in the answer section will be marked.
- Make sure to write neatly – if the marker cannot read what you wrote, then it may be disregarded.
- Final answers must be in pen.
- **If the question requires the answer in a particular format, then the answer must be in that format.**

Vraag 3.3: PRAs / Question 3.3: PRAs

[10]

- 3.3 Voltooi die PRA tabel op die gegewe blad. Toon baie duidelik in die tabel waar “page faults” en “page hits” voorkom. Dui die naam van die bladsy aan wat uit die geheue gelees word (“page hits”) of in die geheue gelaai word (“page faults”) vir elke bladsy versoek. Moet nie enige verdere inligting in die tabel verskaf nie.

Complete the PRA table on the provided sheet. Very clearly show where page faults and page hits occur. Indicate the name of the page that is loaded from memory (page hit) or loaded to memory (page fault) for each page request. Do not include any additional information in the table.

[10]

Totaal / Total: 27

[illegible]

A full-page sheet of white graph paper featuring a uniform grid of thin gray lines. The grid consists of 20 columns and 20 rows, creating a total of 400 small squares. The margins are consistent on all sides.