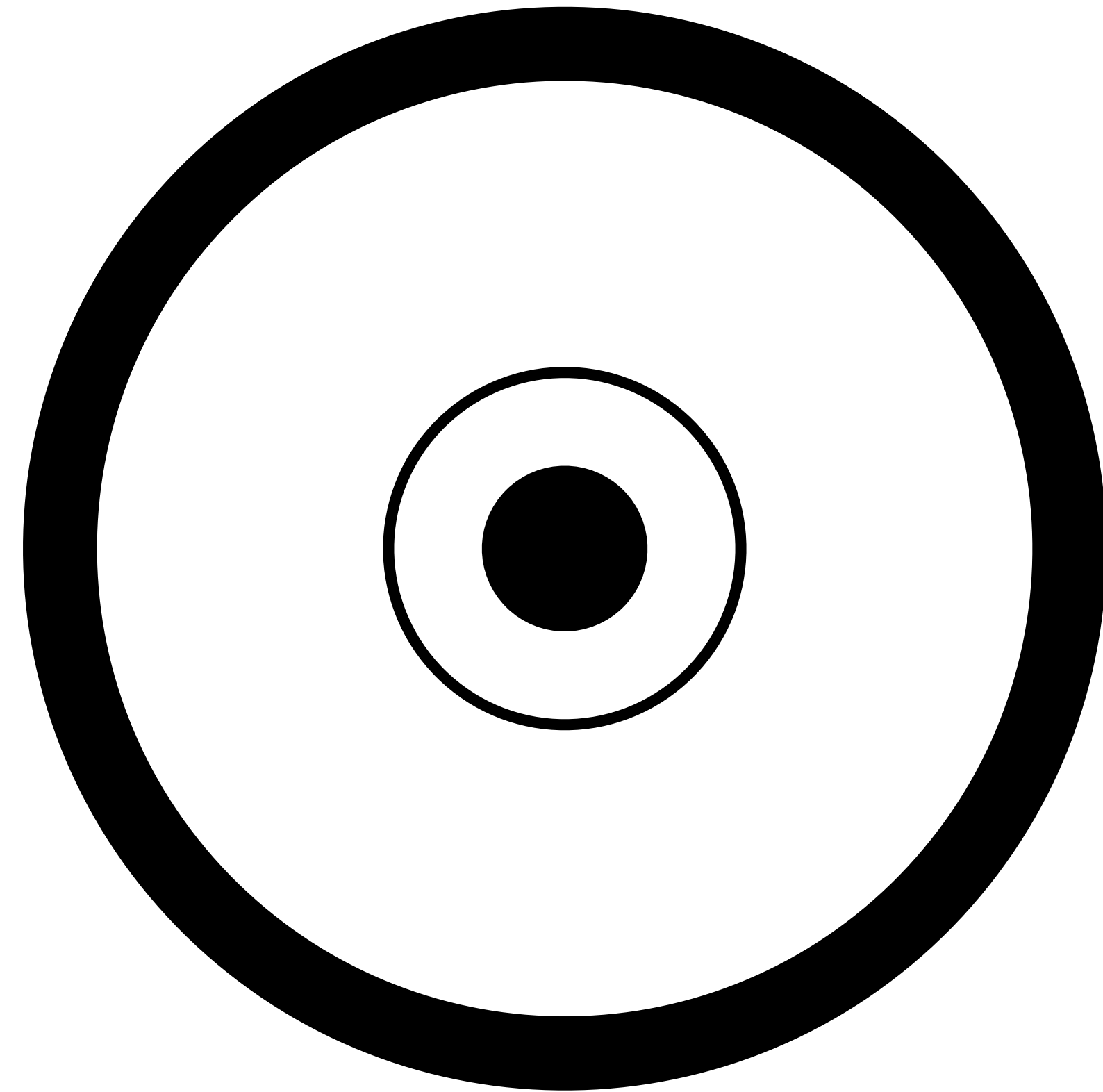Essential Computing 1

Exam

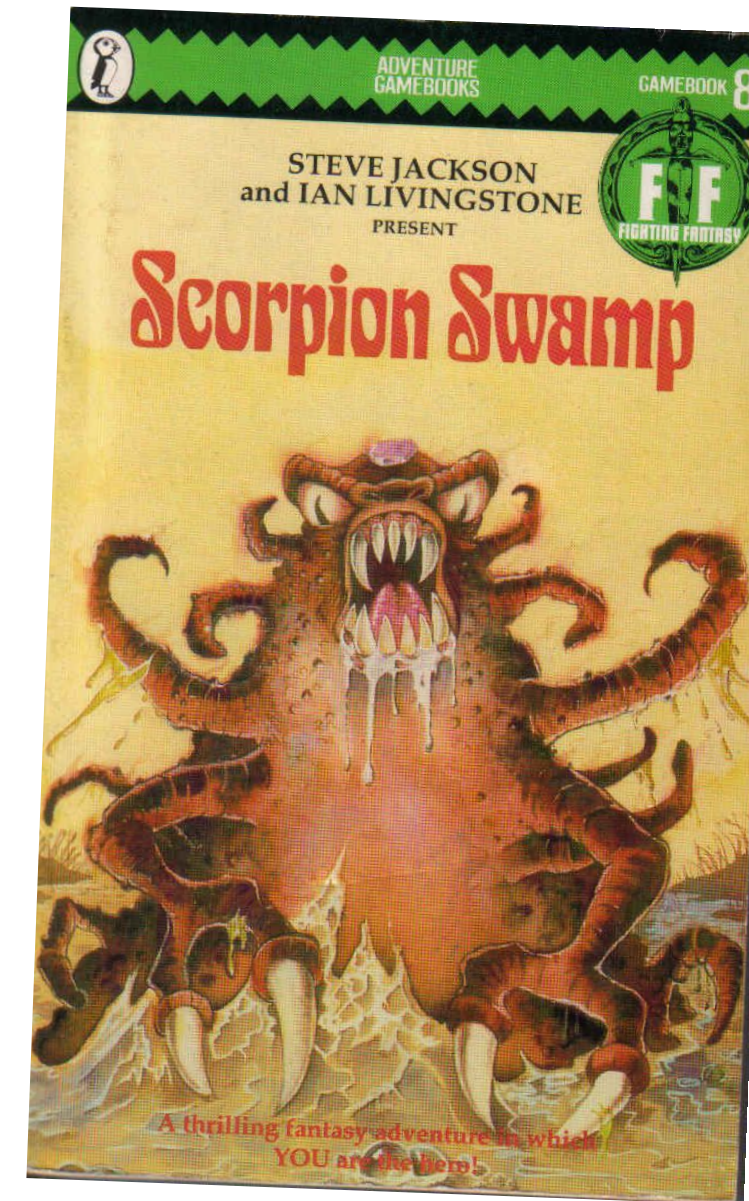# **Requirements** for going to the exam

- 50% of the Mini Assignments
  - Three out of six.
- Mini project
  - "4,800 - 48,000 characters, including spaces." - That means <u>code</u>.
    - The majority must be original work.
  - You are "encouraged" to deliver:
    - Half an A4 page describing your project.
    - A UML activity diagram showing the flow of interactions.
    - A UML class diagram, overviewing the structure of your program.

Mini Project:

Text-Based Adventure Game

You are to write a program that takes the user on an adventure in a world where (s)he is the protagonist. Your program will produce a non-linear story, similarly to adventure game books popular in the 80s, where the reader is presented with critical choices that lead to different consequences (other pages).

You are free to define a theme for your adventure, be it pirates, sci-fi, D&D, RL at RUC, or something completely different.

Delivery Requirements

You must hand in your completed project and all source code required to compile and run the application. You are encouraged to hand in brief documentation (maximum of two pages including everything - e.g. illustrations) to explain your code and the ideas behind it.

Your program must run in the terminal and produce an interaction flow like this:

1. The program outputs a text to the user that describes a location/situation and a number of options to react.
2. The user inputs her reaction of choice to the program.
3. The program evaluates the choice and outputs a text to the user with a new location/situation and new choices. Repeat step 2.

Your program must run as a console application and:

*   Use classes and objects to contain a location/situation that leads to other locations/situations.
*   The user should be able to go through at least 10 different successive locations/situations before reaching a dead end.

Requirements during the exam

- Understanding of the curriculum.
  - Think Java chapter 1-14.
- Deep understanding of the code in your Mini Project.

Exam format

- Individual.
- Dialogue.
- 15 min.
- 7-point grading scale.