

Theory of Computing

Midterm Exam - 90 mins

20XX/20XX

2ND YEAR - ENSIA

IMPORTANT NOTES

- **Bring your own stuff (Asking for Pen, Corrector, Pencil, Ruler, ... NOT ALLOWED)**
- Lecturers will **not answer nor discuss** any query during the exam.
- Strictly, No talking to each other
- Closed-book Exam : No phones on tables, PCs, nor Books.
- **Be brief** when answering the questions. Long paragraphs will be ignored.
- Bad or non-clear writing, will not be appreciated and you **will** be penalized.

EXERCISES : Answer all questions.

Exercise 1 (6 points) [DFA & NFA] :

1. [2 points] ..(From Optional Exercises)
2. [2 points] Find a...
3. [2 points] Find ..

Exercise 2 (4 points) [Regular Expressions] :

1. [3 points] Write regular expressions for the following regular languages:
 - a. [1 pts] ..(From Optional Exercises)
 - b. [2 pts] ..
2. [1 points] ..

Exercise 3 (4 points) [Regular Languages] :

1. [2 points] ..(Possibly From Optional Exercises)
2. [2 points] ..

Exercise 4 (6 points) [CFG] :

1. [1 point] ..
2. [1 point] ..
3. [2 points] ..(From Optional Exercises)
4. [2 points] ..

Previous Midterm Exams

- [2023/2024](#)
- [2022/2023](#)