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Question

CSE331 Quiz 3

Total Marks: 10

Duration: 30 minutes for answering + 15 minutes for submission

[Answer all the questions. Understanding the questions is part of the exam]

Answering & Submission Guide (READ CAREFULLY)

1. Take pictures of your **hand-written** responses. Digitally written responses will be disregarded. **No need to submit the questionnaire this time.**

2. Make sure your pictures are **not blurry & all vertically rotated.**

3. Convert all your pictures to **a single pdf.**

You can use [CamScanner](#) or [Adobe Scan](#) or other similar tools. Here is a tutorial using Adobe Scan: <https://www.youtube.com/watch?v=DylvDZ7oOYo>.

You can use online tools like <https://smallpdf.com/compress-pdf> or <https://www.adobe.com/acrobat/online/compress-pdf.html> to compress a pdf on the go. They will reduce the file size of your pdf without reducing quality.

4. The size of the pdf should be small (not larger than 10 MB).


5. Rename your pdf in the format **Section_Student_id_name.pdf** e.g. 1_17101010_Marin Abdullah.pdf.
(Do NOT add *leading zeros* before the section number)

6. **Submit the pdf only after making sure that you adhere to the submission rules stated above. Failing to do so will result in a 30% penalty.**



You are taking "Quiz 3 Question" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam". **Show Less**

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10. The google form will be open during the whole exam period. **However, for every 5 minutes late, 5 marks will be deducted.**
11. Even if you are late, try to submit via the form. Email submission prior to the consent of your theory faculty will be disregarded anyway.

CLICK HERE TO OPEN THE SUBMISSION FORM

Question 1 [5 Points]

$$S \rightarrow TTS|ST|A$$

$$T \rightarrow AS|TS|aSAT$$

$$A \rightarrow a|Aa|b|Ab|ab$$

Given the above Context-Free Grammar, answer the following questions:

- a) Show the *Left Most Derivation* of *abbabaaabb*
- b) Show the *Right Most Parse Tree* of *abbabaaabb*

Question 2 [5 Points]

Design a context-free grammar for the language of $a^i b^j c^k$ where $i \neq k, i \geq 0, j \geq 0, k \geq 0$. The alphabet is $\Sigma = \{a, b\}$. For example, your CFG should generate *aaaaaaaaaabc*, *bbbbbbbbbccccccc*, *aaaaaabbbbbc*, *aaabbbbbbcccccc*, *aabbbbc*, *aabbbbbbbbcccccc*, *bbbcc*, *bbbc*, *aaaaaaaabbbbbbb*, *aaabbbb*, etc. among other strings.


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