

2. (a) Describe and contrast the following concepts: top-down parsing, recursive descent parsing, and LL(1) parsing.

[11]

- (b) Construct an LL parse table for the following grammar, and explain the steps you have taken:

$S \rightarrow A B C$

$B \rightarrow b \mid \epsilon$

$A \rightarrow a A \mid c$

$C \rightarrow c$

[14]