1. Consider the grammar $G = \langle \{E,S,N,D,S',E'\}\}, \mathbb{Z}, P, E \rangle$ with the productions given by $E \to SE'$

$$E' \rightarrow -SE' \mid E$$

$$S \rightarrow DS'$$

$$S' \rightarrow /DS' \mid \epsilon$$

$$D \rightarrow \sim N \mid N$$

 $N \rightarrow \alpha (CE)$

where XEZ denotes theoregical integers.

The above is context free, unambiguous and also suitable for top-down parsing (No left recursions).

here is a straightforward CFG G= < 853, 7 UE+11, ~3, P, S>
with productions given by

2. Since it hasht been asked to give an unambiguous grammar,

where & denotes any integer.

two non-terminals on the right of the production.