

Daffodil International University

Quiz 03 (65_B_CSE228)

Time: 40 min

1. Define parse tree and syntax tree with example. Marks[5]
2. Define Ambiguous Grammar. Check whether the given grammar is ambiguous or not-

$$S \rightarrow AB / aaB$$

$$A \rightarrow a / Aa$$

$$B \rightarrow b$$

Consider a string w generated by the given grammar- $\{w = aabaa\}$

Marks [5]

3. Define CFG. Find the reduced grammar given below: Marks[5]

$$S \rightarrow aAa$$

$$A \rightarrow Sb | bCC | DaA$$

$$C \rightarrow abb | DD$$

$$E \rightarrow aC$$

$$D \rightarrow aDA$$