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OneNote for Windows 10 ramesh masuna

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39. Consider the following operator grammar (msq)

$$E \rightarrow E + T / T$$

$$T \rightarrow F * T / F$$

$$F \rightarrow id$$

Handwritten notes for 39:

$$id > +$$

$$Trail(F) > +$$

$$id > +$$

$$id > +$$

$$Trail(F) > +$$

$$id > +$$

40. (msq) $S \rightarrow aSb / Ac$
 $A \rightarrow d$

Which of the following operator precedence relations are incorrect?

Handwritten notes for 40:

$$a < (a, c, d)$$

$$a < Lead(s)$$

$$a = b$$

$$d > c$$

$$Trail(A) > c$$

$$d > c$$

41. Choose the correct statement

(a) A LL(1) grammar is compulsory SLR(1)
 (b) An operator grammar can be ambiguous

shift reduce parser

44. Choose the false statement

(a) There exists a grammar that is LR(0) but not LL(1)
 (b) There exists a grammar that is LL(1) but not LR(0)
 (c) There exists a grammar that is LL(1) but not SLR(1)
 (d) There exists an ambiguous grammar that is either LL(1) or LR(0)

45. Choose the false statement

(a) Top down parsing algorithms simulate a leftmost derivation
 (b) Bottom up parsing algorithms simulate the reverse of a rightmost derivation
 (c) An LL(1) parser is a top down parser
 (d) An LR(1) parser may sometimes exist for some ambiguous grammars

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