

Zoom Webinar

OneNote for Windows 10

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ramesh masuna

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Q.3 Consider the following grammar: (Gate-2017) (1 mark)

$$P \rightarrow xQyS$$

$$Q \rightarrow yz|z$$

$$R \rightarrow w|\epsilon$$

$$S \rightarrow y$$

What is FOLLOW (Q)? = {w, y}

(a) {R} (b) {w}

(c) {w, y} (d) {w, \$}

Q.3 Consider the grammar given below: (Gate-2019)

S → Aa

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Q.3 Consider the grammar given below: (Gate-2019) (1 mark)

$$S \rightarrow Aa$$

$$A \rightarrow Bb$$

$$B \rightarrow b|\epsilon$$

$$D \rightarrow d|\epsilon$$

Let a, b, d and \$ be indexed as follows:

a	b	d	\$
3	2	1	0

Compute the FOLLOW set of the non-terminal B and write the index values for the symbols in the FOLLOW set in the descending order (For example, if the FOLLOW set is {a, b, d, \$}, then the answer should be 3210)

$$\begin{aligned} \text{follow}(B) &= \{d\} \cup \text{follow}(A) \\ &= \{d\} \cup \{a\} \\ &= \{a, d\} \\ &\quad \underline{\underline{3 \ 1}} \end{aligned}$$

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