

Part-B

20181CSE0621
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Q.2) Valid Lexemes:-

Mark1, @123, Test-1, abc, A123b, A1B2C3,
\$abc, @abc.

Consider, $W \rightarrow$ Set of letters $[a|b \dots |z]$
 $D \rightarrow$ Set of digits $[1|2| \dots]$
 $S \rightarrow$ Set of special characters

Regular Expression:-

 $\Rightarrow (W|D|S)^+ \cdot D^* \cdot W \cdot D^* \cdot W \cdot D^*$