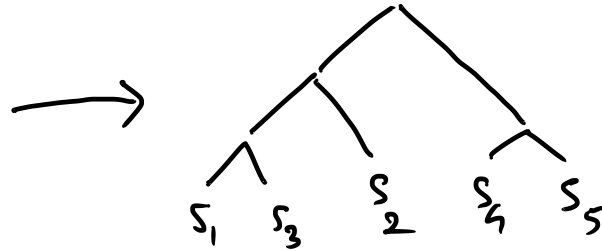


A)

sequences

s_1 PPGVKSDCAS
 s_2 PADGVKDCAS
 s_3 PPD6K30S
 s_4 GAD6KDCCS
 s_5 BAD6KDCAS

B) tree



C) MSA

1 PPGVKSDCAS
 3 PPD6K30--S
 2 PADGVKDCAS
 4 GAD6K-DCCS
 5 BAD6K-DCAS

1 PPGVKSDCAS
 3 PPD6K30--S
 2 PADGVKDCAS

1 PPGVKSDCAS
 3 PPD6K30--S

PPGVKSDCAS

s_1

PPD6K30S

s_3

PADGVKDCAS

s_2

GAD6KDCCS

s_4

BAD6KDCAS

s_5

4 GAD6KDCCS
 5 BAD6KDCAS