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UTS

1. Diketahui:

W = bahagia

V = hidup

U = oke

1. URVW

Jawab :

UR = (ko)Re

= (o)R ek

= o.ek

= eko

URVW = ekohidupbahagia

1. Prefik(VU)

Jawab :

VU = hidupoke

Prefik(VU) = {ε, h, hi, hid, hidu, hidup, hidupo, hidupok, hiduopoke}

1. (W|V)U

Jawab :

(W|V)U = WU | VU

= bahagiahidup | hidupbahagia

1. V+

Jawab :

V+ = (hidup, hiduphidup, hiduphiduphidup, hiduphiduphiduphidup, hiduphiduphiduphiduphidup, … )

1. |VU|

Jawab :

|VU| = {hidupoke}

= {1}

1. Diketahui :

A = {ha, hi, ε}

B = {?, !, ε}

1. A.B

Jawab :

A.B = (ha, hi, ε)(?, !, ε)

= {ha?, ha!, haε, hi?, hi!, hiε, ε?, ε!, εε}

1. B – A

Jawab :

B – A = {?, !, ε} - {ha, hi, ε}

= {ε}

1. (A∪B) – B

Jawab :

(A∪B) = {ha, hi, ε, ?, !, ε}

(A∪B) – B = {ha, hi, ε, ?, !, ε} - {?, !, ε}

= {3}

1. (A-B)B

Jawab :

(A-B) = {ε}

(A-B)B = {ε}{{?, !, ε} }

= {ε?, ε!, εε}

1. (AnB)A

Jawab :

(A) = (ε)

(A)A = (ε)(ha, hi, ε)

= (εha, εhi, εε)