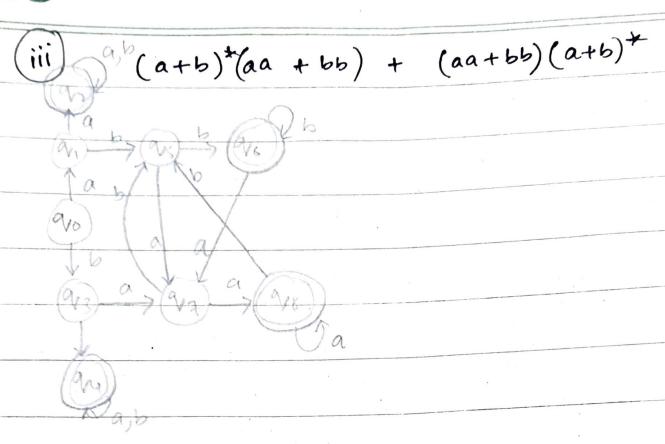
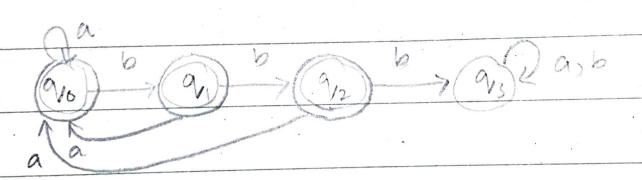
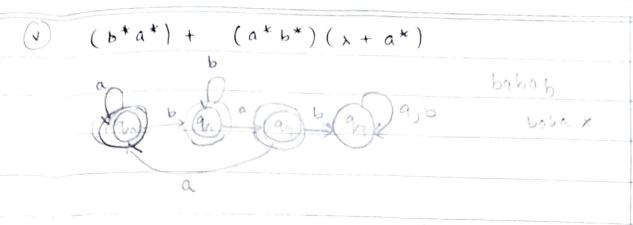


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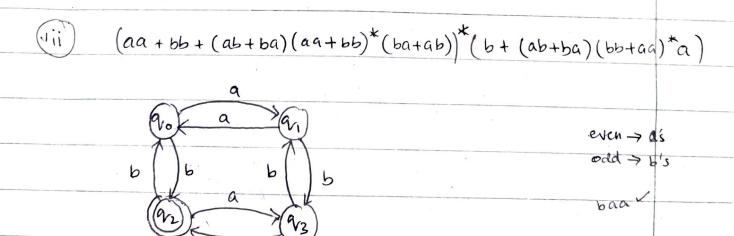


(vi) ab*a (b*ab*ab*a)

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(vi) ab*a (b*ab*ab*a)



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section B.

01.

02.

$$(comp[A-Z]^* + imp[A-Z]^*)(20^+ [A-Z]^*)(virus)$$

03.

 $V_{cons} = \{b, c, d, f, g, h, g, k, l, m, n, p, q, r, s, t, v, w, x, y, z\}$ $V_{vow} = \{a, e, i, o, v\}$

04.

$$\Sigma_{1} = \{ A - Z \} \qquad \Sigma_{2} = \{ A - Z \} \qquad \Sigma_{3} = \{ 0 - 9 \} \\
\Sigma_{4} = \{ !, @, \#, \$, \wedge, \wedge, \&, * \} \\
\left(\{ \Sigma_{1} + \Sigma_{2} + \Sigma_{3} + \Sigma_{4} \} \right) \left(\{ \Sigma_{1} \Sigma_{2} \Sigma_{4} \} + \{ \Sigma_{1} \Sigma_{4} \Sigma_{3} \} + \{ \Sigma_{3} \Sigma_{4} \Sigma_{1} \} + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} \right) + \{ \Sigma_{4} \Sigma_{3} \Sigma_{3} \} \right) + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} \right) + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \} \right) + \{ \Sigma_{4} \Sigma_{3} \Sigma_{4} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{4} \Sigma_{4} \Sigma_{4} \Sigma_{4} \Sigma_{4} \Sigma_{4} \} + \{ \Sigma_{4} \Sigma_{4}$$

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Q5.