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Air Find the rigular enposession over &= {a, 6}, corrisponding 16

i) The set of all strings containing mactly two a's, =) li= { aa, aab, baa, baab, abab...}

R = aat aab + baat baab + abab + ...

:. R = 16 x - ab x ab x ab da ab , so ab a]

ii) The set of all strings containing at least

=) Li = { aa, aab, aaab, baaab, babab, ... } R = aa + aab + aaab + baaab + babab + ...

:. R = (a+6)* a(a+6)*

substring aa.

P = { baab + abaaba + babaabab + ... }

: R = (a+6) * ca(a+6)*

iii) The set of all strings containing at most two a's le, a, aa, ab, abab, baba, ... 3

R = E + a + a a + a b + a b a b + b a b a + ...

· R = (6 * ab * ab * + b * ab *]

- A2) Find the regular expression representing the set of au strings of the form:
- i) amb c (m,n,p)=1)

 2) Li= { aabbcc, abe, aaabbbece, ...}

 R= aabbcc+ abe+ aaabbbece+...

 = R= aa* bb* ce*
- ii) am 5 2 2 0 m, n, p >= 1)
 - 1) Le {abbecc, aabbbbcccccc, ...}

 R = abbccce + aabbbbcccccc, t...

 ... R = aa* (66)(66)* ecc(ccc)*
 - iii) an 6 an 62 (m)=0, n>=1)
 - e) L1 = {abbb, aabaabb, aaabaaaabb,...}

 R = abbb + aabaabb + aaabaaaabb +...
 - R = aa* 6 (aa)* 66.