Calculating & (n, u):

we will try to develop a recurrion relation to calculated

B(n, n): no of partitions of in such That the maximum number in each poutition is 'K'.

Now, no of 1 applitions such that max no is at most (K-1) i'e less than 'k' = B(n, K-1)

it, the no. of partitions such that the max no in each partion 12 not K = B (N , K-1)

no. of partitions such that The max-no is only 'k' in each partition: g(n-k,k) (because all partitions of (n-k) will have only k as the manimum no)

Hence, by Inclusion exclusion principle,

8 (n/k) = 8 (n, k-1) + 8(n-k, k) + K71, N>K

calculating R(n,x):

no ef partitions of in south that each partition has less than K numbers = R(n, K-1)

no of partitions of is such that each partition has only it elements 2 R(TK, K) (" Rach number of a partition can be atleast 1)

.. By IEP: R(n,k) = R(n,k+1) + R(n-km) + N>1, N>K.

Hence, as The characteristic equation of f(n,k) and B(n, n) are the same, hence B(n, k) = R(n, k) + n, k.