MA212 End Semester Examination May 2021. Time: 2 pm - 4 pm (Date: 04/05/2021)

Consider the sample given below:

For DATA B: If the population follows Poisson distribution then the theoretical frequency of X=0 is ___ *

241.864

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*

To test for goodness of fit of Poisson distribution to the DATA B, the value of χ^2 is ____

40.877

To test for goodness of fit of Poisson distribution to the DATA B, the degree of freedom will be ____ *

○ 2

○ 6

○ 4

● 5

DATA B

X	0	1	2	3	4	5
Observed value	275	138	75	7	4	1

*

Is the DATA B fit good with Poisson Distribution, if given that $\chi^2_{0.05} = 5.991, d.o.f.2$, $\chi^2_{0.05} = 7.815, d.o.f.3$, $\chi^2_{0.05} = 11.070, d.o.f.5$ $\chi^2_{0.05} = 12.592, d.o.f.6$

○ good fit

◉ not good fit

○ can't say

○ insufficient data

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