BTech II (CSE) Semester IV - Mid Semester Examination March 2021 Subject: MA 212 Linear Algebra and Statistical Analysis, Time: 9:00 - 9:45 am

* Required

The joint probability function of two discrete random variables X and Y is given by f(x, y)=c(2x+y), where x and y can assume all integers such that $2 \ge x \ge 0$, $3 \ge y \ge 0$, and f(x, y) = 0 otherwise.

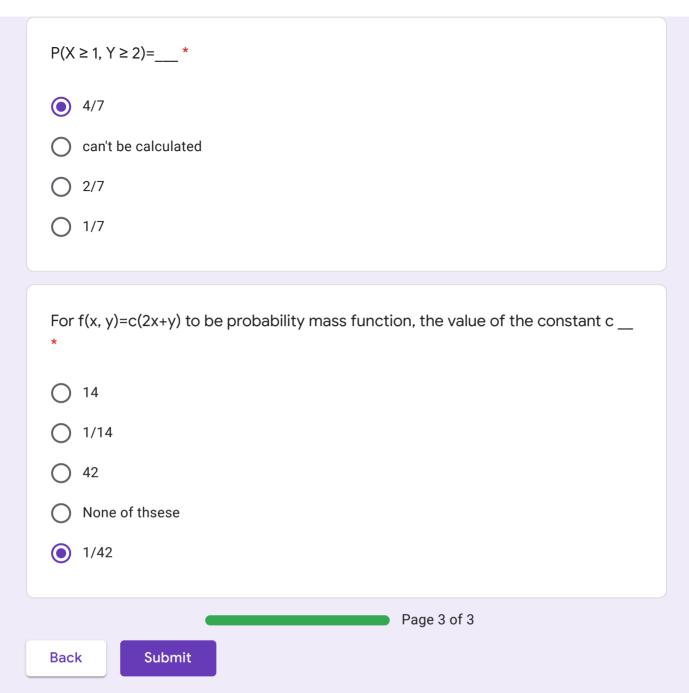
Answer following question based on this data:

The marginal probability Px(X=2)=*

- 0 1/7
- 7/42
- None
- 11/21
- 0 2/7

P(X = 2, Y = 1) *

- 5/42
- 7/12
- None
- 7/42
- 5/12



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