X

Unit 5 - Week 3

Practice Assignment 3

The due date for submitting this assignment has passed. Due on 2020-02-19, 23:59 IST.
As per our records you have not submitted this assignment.

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) A and B are two events. The probability that at least one of them occurs is given by ***1 point***

- $P(A \cap B^c) + P(A^c \cap B)$
- $P(A) + P(B) - P(A \cap B)$
- $P(A) + P(B) + P(A \cap B)$
- $P(A^c) + P(B^c) - 2P(A^c \cap B^c)$

No, the answer is incorrect.
Score: 0

Accepted Answers:
$P(A) + P(B) - P(A \cap B)$

2) Two tube lights are installed in a room. Probability of light A failing is 0.20 while the probability of light B failing is 0.15. What is the probability that both the lights are working on a given day? (final value is rounded off to 2 decimal places) ***1 point***

- 0.50
- 0.54
- 0.80
- 0.68

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.68

3) Given that the random variable X follows a chi-square distribution with 4 degrees of freedom and P(X≤x)=0.5. Then the value of X is ***1 point***

- 3.357
- -3.357
- -3.325
- 3.325

No, the answer is incorrect.
Score: 0
Accepted Answers:
3.357

4) The possible values of the correlation coefficient lies between: ***1 point***

- 0 to -1
- -1 to 1
- -∞ to ∞
- 0 to ∞

No, the answer is incorrect.
Score: 0
Accepted Answers:
-1 to 1

5) 50% of the employees of the ABC corporation are college graduates. Of these, 15% are in sales. Of the employees who did not graduate from college, 70% are in sales. ***1 point***

The probability of an employee selected at random is in sales
(final value is rounded off to 2 decimal places)

- 0.50
- 0.15
- 0.43
- 0.70

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.43