NPTEL » Applied Econometrics Week 1:Assignment 1 Course outline How does an NPTEL online course work? Week 0: 1) Week 01 a) Lecture 01: Overview of Module 01 & Introduction of b) Causality Lecture 02: Correlation and c) Causality Lecture 03: Correlation and d) Causality (Contd.) Lecture 04: Correlation and O a Causality (Contd.) 0 b Lecture 05: Probability Theory 0 c Lecture 06: Probability Theory \bigcirc d (Contd.) No, the answer is incorrect. Lecture 07: Probability Theory Score: 0 (Contd.) Accepted Answers: b Lecture 08: Probability Theory (Contd.) 2) Lecture 09: Posterior Probability A. True Lecture 10: Bayesian B. False Theorem Lecture 11 : Bayesian \bigcirc A Theorem (Contd.): Repeated Ов Trial No, the answer is incorrect. Lecture 12 : Bayesian Score: 0 Theorem (Contd.): Example Accepted Answers: of Diamond Identification Quiz: Week 1:Assignment 1 3) Feedback for Week 1 Week 02 Week 03 C. Both are true D. None true Week 04 \bigcirc A Week 05: \bigcirc B Week 06 0 C Week 07 No, the answer is incorrect. Score: 0 Week 08 Accepted Answers: Week 09 Week 10 i) Week 11 ii) Week 12 A. i)True; (ii)False B. Both False Course Material C. i) False; ii) True

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Assignment Solution

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The due date for submitting this assignment has passed.
                                                                                               Due on 2021-08-18, 23:59 IST.
As per our records you have not submitted this assignment.
                                                                                                                          1 point
             What is the probability of getting at least one tail if a coin is tossed 5 times?
                                                                                                                          1 point
               A random experiment means the results from the experiment are equally probable
                Which of the following statement is true?
                                                                                                                          1 point
        A. Mutually exclusive events imply independence
        B. Independence imply mutually exclusiveness
      Are the following statements True or False:
                                                                                                                          1 point
                   Bayesian probability doesn't depend on the historical facts
                   Bayesian probability helps us in updating our beliefs continuously
       D. Both True
   \bigcirc A
   ○ B
   0 c
   No, the answer is incorrect.
  Score: 0
 Accepted Answers:
                                                                                                                          1 point
      Bayesian probability helps us to get rid of our mental stereotypes
      A. True
      B. False
   \bigcirc A
   ○ B
  No, the answer is incorrect.
 Score: 0
 Accepted Answers:
                                                                                                                         0 points
 6)
      If 5 persons in every 1000 person is detected with Covid and the test accuracy is 95%, what
      is the probability of having Covid given the test result is positive
        a. 9.02%
        b. 42.63%
        c. 8.43%
        d. 43.58%
   O a
   0 b
   0 c
   \bigcirc d
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
                                                                                                                          1 point
      Which of the following describes a causal relationship?
        a. Tall people are more intelligent
        b. Age of a child and the number of siblings of the child
        c. Distance travelled and time spent driving
        d. Number of correct answers in this quiz and the test score
  a
  □ b
   _ c
  □ d
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 d
                                                                                                                          1 point
       Identify the false claim about correlations.
                   a. If two variables are correlated, it means variation in one cause variation in the other.
                       If two variables are causally related, they will be correlated.
                       Sometimes correlations are products of some other, unobserved, factor.
                   d. Correlations between variables can be either negative or positive.
   O a
   O b
   0 c
   \bigcirc d
  No, the answer is incorrect.
  Accepted Answers:
 9)
                                                                                                                          1 point
       Vaccines produced by a pharmaceutical company are found to be defective. The details of the
       production from its 3 laboratories are provided in the below table.
                     Laboratory
                                                   % of total vaccines
                                                                                % of defective vaccine
                                                   produced
                     Х
                                                   35%
                                                                                1.5%
                     Y
                                                   35%
                                                                                1%
                                                                                2%
```

Z 30%

a) 35.7% b) 32.6% c) 22.5% d) 23.7%

What is the probability of a randomly selected vaccine to be defective and produced in

factory Y?

Accepted Answers:

No, the answer is incorrect.

O a

0 c

Score: 0

10)

Age	Total COVID Deaths	Death With Comorbidity	Death with No Comorbidity
0 to 30 yea	rs 500	170	330
31- 60 yea	rs 1500	1200	300
61 – 80 ye	ars 2000	1800	200
80+ years	1000	900	100
-	orobability of a person of f that person dying with		p 31 to 60 years? What is t

Please refer the table and answer the question:

b) 50%, 80%

c) 30%, 80%

a) 25%; 50%

- d) 85%, 35%

O a

O b

Ос

 \bigcirc d No, the answer is incorrect. Score: 0

Accepted Answers:

1 point