Course outline

course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Feedback

Download Videos

Text Transcripts

○ 30

32

No, the answer is incorrect. Score: 0

Accepted Answers: 32



Announcements

About the Course

Ask a Question

Progress Mentor

Unit 3 - Week 2

How does an NPTEL online

Introduction to Probability- I

Introduction to Probability- II

O Probability Distributions - I

O Probability Distributions - II

O Probability Distributions - III

Ouiz: Assignment 2

Solution: Assignment 2

NPTEL » Data Analytics with Python

| The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. | Due on 2020-02-12, 23:59 |
|---|--------------------------|
| Write number of sample space of Experiment A. Experiment A: Randomly select 3 students at a time, out of 5 students (1,2,3,4,5) without replacement. | |
| O1 | |
| O 2 | |
| O 60 | |
| O 10 | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: | |
| 10 | |
| 2) State True or False | |
| Statement: A mutually exclusive event will always be an independent event | |
| ○ True | |
| O False | |
| No, the answer is incorrect. | |
| Score: 0 | |
| Accepted Answers: | |
| False | |
| 3) State True or False | |
| Statement: An independent event is always mutually exclusive event | |
| ○ True | |
| O False | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: | |
| False | |
| 4) If we roll a dice 10 times, then number of simple events is: | |
| O 20 | |
| O 40 | |
| O 60 | |
| None of the above | |
| | |
| No, the answer is incorrect. Score: 0 | |

| Write number of sample space of Experiment A. Experiment A: Randomly select 3 students at a time, out of 5 students (1,2,3,4,5) without replacement. | 1 point |
|--|---------|
| O ₁ | |
| ② 2 ③ 60 | |
| O 10 | |
| No, the answer is incorrect. Score: 0 Accepted Answers: | |
| 10 2) State True or False | 1 point |
| Statement: A mutually exclusive event will always be an independent event | r point |
| True | |
| False | |
| No, the answer is incorrect. Score: 0 Accepted Answers: False | |
| | 1 point |
| Statement: An independent event is always mutually exclusive event | |
| ○ True ○ False | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: False | |
| | 1 point |
| ○ 20 ○ 40 | |
| O 60 | |
| None of the above No, the answer is incorrect. | |
| Score: 0 Accepted Answers: None of the above | |
| 5) An Ice-cream cafe has 200 customers every day. 60% of them like vanilla flavor and 80% of them like mango flavor. What is the probability, if one of the customers selected randomly and asked which flavor does he/she likes and they don't like either of them. | 1 point |
| O 0.2 | |
| 0.1 0.4 | |
| 0.5 | |
| No, the answer is incorrect. Score: 0 Accepted Answers: 0.1 | |
| 6) In problem number 5, what is the probability that they like either mango or vanilla | 1 point |
| | |
| ○ 0.08 ○ 0.1 | |
| 0.82 0.9 | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: 0.9 | |
| 7) In problem number 5, what is the joint probability of "ordering both vanilla and mango ice-cream" event and "not ordering both vanilla and mango ice-cream" event? | 1 point |
| (0.5,0.3) | |
| (0.5,0.2) | |
| (0.5,0.5) None of the above | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: None of the above | |
| 8) In problem number 5, what is the conditional probability of ordering a mango ice-cream after vanilla ice-cream by the same customer? | 1 point |
| O 0.8 | |
| ○ 0.9 ○ 0.833 | |
| ○ 0.933 | |
| No, the answer is incorrect. Score: 0 Accepted Answers: 0.833 | |
| | 4 |
| A D B 8 12 | 1 point |
| C 20 30 State True or false | |
| Statement: Both A and B event are independent. | |
| ○ True ○ False | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: True | |
| 10) Some of the CDs produced by a manufacturer are defective. From the production line, 5 CDs are selected and inspected. How many sample points exist in this experiment? | 1 point |
| O 10 | |
| ○ 25 | |