

Elementary Probability Theory

Vivekanand college, Kolhapur Dept. of Statistics

Internal Examination - Sem I DSC1004A Part-II

Date-09/01/2021 Total marks 15

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Name of the student

Misam Ashfak Pathan

Roll Number

6899

The event which consists of all sample points of the sample space is Event

- a) Impossible
- b) Certain
- c) Mutually exclusive
- d) Exhaustive

If $A \subseteq B$, then $P(A \cap B) = \dots\dots\dots$

- a) $P(A)$
- b) $P(B)$
- c) $P(B) - P(A)$
- d) $P(A) - P(B)$

One card is drawn at random from a pack of 52 cards, the probability that it is King or Queen is.....

- a) $2/52$
- b) $2/13$
- c) $1/13$
- d) $4/52$

Probability that a leap year, selected at random will contain 53 Sundays is.....

- a) 1
- b) $1/7$
- c) $2/7$
- d) 0

If odds in favor of X solving a problem are 4:3 and odds against Y solving the same problem are 2:3, then probability of Y will solve the problem is

- a) $4/7$
- b) $3/7$
- c) $2/5$
- d) $3/5$

A statement "A and B occurs simultaneously" can be represented symbolically as

- a) $A \cup B$
- b) $A \cap B$
- c) $A^c \cap B^c$
- d) $A \cap B^c$

Which of the following is true?

- a) $P(A \cap B) \leq P(A)$
- b) $P(A) \leq P(A \cup B)$
- c) $P(A \cup B) \leq P(A) + P(B)$
- d) All of the above

For any event A, $P(A/A)$ is

- a) one
- b) zero
- c) $P(A)$
- d) $1/P(A)$

If A and B are two independent events such that $P(A)=0.5$, $P(A \cap B) = 0.15$ then $P(B)$ is.....

- a) 0.4
- b) 0.3
- c) 1
- d) 0.75

If A and B are two independent events then $P(B|A)$ is

- a) 0
- b) 1
- c) $P(B)$
- d) $P(A)$

Which of the following statement is always correct? I: Pairwise independence \rightarrow Mutually independence II: Mutually independence \rightarrow Pairwise independence

- a) Only I is true
- b) Only II is true
- c) Both are true
- d) Both are false

The sample space corresponding to the experiment “ Three seeds are planted and total number of seeds germinated are recorded after a week” is.....

- a) (0,3)
- b) {0,1,2,3}
- c) {1,2,3}
- d) [0,3]

Which of the following is a pair of mutually exclusive events in the drawing of a single card from a pack of 52 playing cards?

- a) A heart and a queen
- b) An even number and a spade
- c) A club and a red card
- d) an ace and an odd number

Which of the following condition is true for independence of two events A and B

- a) $P(A)P(B)$
- b) $P(A|B) = P(A)$
- c) $P(B|A) = P(B)$
- d) All of these

Let A and B be two events such that $P(A) = 0.4$, $P(B) = 0.7$ and $P(A \cup B) = 0.8$. Then $P(A \cap B)$ is.....

- a) 0.3
- b) 0.7
- c) 0.4
- d) 0.5

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Name of the student

Dipali Ramesh Karne

Roll Number

6877

The event which consists of all sample points of the sample space is Event

- a) Impossible
- b) Certain
- c) Mutually exclusive
- d) Exhaustive

If $A \subseteq B$, then $P(A \cap B) = \dots\dots\dots$

- a) $P(A)$
- b) $P(B)$
- c) $P(B) - P(A)$
- d) $P(A) - P(B)$

One card is drawn at random from a pack of 52 cards, the probability that it is King or Queen is.....

- a) $2/52$
- b) $2/13$
- c) $1/13$
- d) $4/52$

Probability that a leap year, selected at random will contain 53 Sundays is.....

- a) 1
- b) $1/7$
- c) $2/7$
- d) 0

If odds in favor of X solving a problem are 4:3 and odds against Y solving the same problem are 2:3, then probability of Y will solve the problem is

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If A and B are two independent events such that $P(A)=0.5$, $P(A \cap B) = 0.15$ then $P(B)$ is.....

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- a) 0
- b) 1
- c) $P(B)$
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Which of the following statement is always correct? I: Pairwise independence \rightarrow Mutually independence II: Mutually independence \rightarrow Pairwise independence

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- a) 0.3
- b) 0.7
- c) 0.4
- d) 0.5

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Name of the student

Saad Sanjay Hasbe

Roll Number

6870

The event which consists of all sample points of the sample space is Event

- a) Impossible
- b) Certain
- c) Mutually exclusive
- d) Exhaustive

If $A \subseteq B$, then $P(A \cap B) = \dots\dots\dots$

- a) $P(A)$
- b) $P(B)$
- c) $P(B) - P(A)$
- d) $P(A) - P(B)$

One card is drawn at random from a pack of 52 cards, the probability that it is King or Queen is.....

- a) $2/52$
- b) $2/13$
- c) $1/13$
- d) $4/52$

Probability that a leap year, selected at random will contain 53 Sundays is.....

- a) 1
- b) $1/7$
- c) $2/7$
- d) 0

If odds in favor of X solving a problem are 4:3 and odds against Y solving the same problem are 2:3, then probability of Y will solve the problem is

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- b) $3/7$
- c) $2/5$
- d) $3/5$

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- b) $P(A) \leq P(A \cup B)$
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- a) one
- b) zero
- c) $P(A)$
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If A and B are two independent events such that $P(A)=0.5$, $P(A \cap B) = 0.15$ then $P(B)$ is.....

- a) 0.4
- b) 0.3
- c) 1
- d) 0.75

If A and B are two independent events then $P(B|A)$ is

- a) 0
- b) 1
- c) $P(B)$
- d) $P(A)$

Which of the following statement is always correct? I: Pairwise independence \rightarrow Mutually independence II: Mutually independence \rightarrow Pairwise independence

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- a) 0.3
- b) 0.7
- c) 0.4
- d) 0.5

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Name of the student

Trupti vijay patil

Roll Number

7114

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- b) Certain
- c) Mutually exclusive
- d) Exhaustive

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- a) $P(A)$
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- c) $P(B) - P(A)$
- d) $P(A) - P(B)$

One card is drawn at random from a pack of 52 cards, the probability that it is King or Queen is.....

- a) $2/52$
- b) $2/13$
- c) $1/13$
- d) $4/52$

Probability that a leap year, selected at random will contain 53 Sundays is.....

- a) 1
- b) $1/7$
- c) $2/7$
- d) 0

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- a) 0.3
- b) 0.7
- c) 0.4
- d) 0.5

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Name of the student

Mane Siddhi Bipinkumar

Roll Number

6890

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- a) $2/52$
- b) $2/13$
- c) $1/13$
- d) $4/52$

Probability that a leap year, selected at random will contain 53 Sundays is.....

- a) 1
- b) $1/7$
- c) $2/7$
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- a) 0.3
- b) 0.7
- c) 0.4
- d) 0.5

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