



WORKSHEET- 31

SUBJECT - STATISTICS

Term : Final

Topic – Probability

Class: XI

Full Marks: 15

Date:16 .01. 2021

Q1. Select the correct alternative of the following questions.

- i) Probability is a
a) measure b) concept c)attribute d) none of these
- ii) If the sets A and B are mutually exhaustive then $P(A \cap B)$ is
a) S (b) \emptyset c)0 d) none of these
- iii) If the sets A and B are mutually exclusive then $P(A \cap B)$ is
a) S (b) \emptyset c)0 d) none of these
- iv) If the sets A and B are mutually exhaustive then $P(A \cup B)$ is
a) 1 b) \emptyset c)0 d) none of these
- v) If A_1, A_2, A_3 are mutually exclusive, mutually independent and exhaustive, then the probability that A_1, A_2, A_3 occur simultaneously is
a) $\frac{1}{3}$ b) 0 c) 1 d) none of these
- vi) The probability of getting 9 dots with two unbiased dice is
a) $\frac{1}{9}$ b) $\frac{1}{6}$ c) $\frac{1}{18}$ d) none of these
- vii) If A_1, A_2, A_3 are equally likely, exhaustive and mutually exclusive, then $P(A_1)$ equals
a) 1 b) 0 c) $\frac{1}{2}$ d) $\frac{1}{3}$

- viii) If $P(A)=0.2, P(B)=0.4$ and $P(AB)=0.08$, then $P(B/\bar{A})$ equals
a) 0.4 b) 0.2 c) 0.8 d) none of these
- ix) The number of trials an experiment consists of is
a) 1 b) more than 1 c) 1 or more d) none of these
- x) An event consists of
a) outcome b) experiment c) both d) none of these
- xi) An event is expressed by
a) set b) number c) both d) none of these
- xii) If two sets be mutually exclusive then they must be
a) exhaustive b) equally likely c) equal d) none of these
- xiii) The probability of an event lies between
a) -1 & 1 b) 0 & 1 c) -1 & 0 d) none of these
- xiv) If A and B can hit the target with probabilities $1/3$ and $1/5$, then the probability that exactly one of them hits the target is
a) $1/3$ b) $1/6$ c) $1/12$ d) none of these
- xv) A and B throw an unbiased die one after another. Find the probability that A gets six first as the face value
a) $6/11$ b) $1/6$ c) $5/12$ d) none of these

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