



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



WORKSHEET- 31

SUBJECT - STATISTICS

Term : 2nd

Topic - Probability
Full Marks: 15

Class: XI
Date:18 .01. 2021

Q1. Select the correct alternative of the following questions.

- (i) Probability of getting an odd number when an unbiased die is rolled once
(a) $1/2$ (b) $1/6$ (c) $1/36$ (d) none of these
- (ii) Probability of getting 3 or 4 when an unbiased die is rolled once
(a) $1/2$ (b) $1/6$ (c) $1/36$ (d) none of these
- (iii) Probability that the sum of the face values of 2 unbiased dies is 6
(a) $1/2$ (b) $1/6$ (c) $1/36$ (d) none of these
- (iv) If the sets A and B are mutually exclusive then $P(A \cup B)$ is
(a) 1 (b) \emptyset (c) 0 (d) none of these
- (v) If the sets A and B are equally likely then
(a) $P(A)=0$ (b) $P(B)=0$ (c) $P(A)=P(B)$ (d) none of these
- (vi) Total probability of any experiment is
(a) 0.5 (b) \emptyset (c) 0 (d) none of these
- (vii) If the sets A and B are exhaustive then
(a) $P(A)=0$ (b) $P(B)=0$ (c) $P(A)=P(B)$ (d) none of these
- (viii) The probability can be calculated only of a/an
(a) experiment (b) sample space (c) event (d) none of these

- (ix) Probability that either A or B occurs is
 (a) $A \cap B$ (b) 1 (c) 0 **(d) none of these**
- (x) The probability of a sure event is
 (a) 0 (b) 0.5 (c) 1 (d) none of these
- (xi) The probability of getting 9 as a face value when an unbiased die is
 (a) 0 (b) 1 (c) both (d) none of these
- (xii) The probability of getting two heads when an unbiased die is rolled 4 times
 (a) 0 (b) 0.25 (c) 0.5 (d) none of these
- (xiii) The probability of selecting 2 red balls from 6 identical red balls is
 (a) -1 & 1 (b) 1 (c) -1 & 0 (d) none of these
- (xiv) $P(A+B) = 2/3$ and $P(B-A) = 1/3$, then $P(B) =$
 (a) -1 (b) 1 (c) 0 (d) none of these
- (xv) For the events A and A^c , $P(A) - P(A^c) =$
 (a) 0 (b) -1 (c) 1 (d) none of these

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