ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET- 28

SUBJECT – **STATISTICS**

Term : 2nd

Topic – Probability   Class: XI
Full Marks: 15   Date:21 .11. 2020

Q1.   Select the correct alternative of the following questions.

(i)   Probability of getting an even 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 1 or 2 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 7
        (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∪B) is
        (a) 1   (b)∅   **(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) 1   (b)∅   (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 neither A or B occurs is
          (a) A∩ $\bar{B}$ (b) 1   (C) 0   **(d) none of these**

(x)   The probability of an impossible event is
          (a) 0   (b) 0.5   (c) 1   (d)none of these

(xi)   The probability of getting 7 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 thrice
          (a) 0   (b) 0.25   (c) 0.5   **(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)   P(A+B)= 2/3 and P(A- B) = 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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