ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET- 31

SUBJECT – STATISTICS

Term : 2nd

Topic – Probability **Class: XI**
Full Marks: 15 **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∪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) 0.5 (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 either A or B occurs is

(a) A∩ 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 identiocal 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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