ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF 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∩B) is
a) S (b)∅ c)0 **d) none of these**

iii) If the sets A and B are mutually exclusive then P(A∩B) is
a) S (b)∅ **c)0** d) none of these

iv) If the sets A and B are mutually exhaustive then P(A∪B) is
a) 1 b)∅ 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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