



ST. LAWRENCE HIGH SCHOOL A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET- 29

SUBJECT - STATISTICS

Term : 2nd

Class: XI

Topic – Probability Full Marks: 15

Date:23.11.2020

- Q1. Select the correct alternative of the following questions.
- i) 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**
- ii) The probability of having no head from 3 throws of an unbiased coin is a) $\frac{1}{3}$ b) $\frac{1}{8}$ c) $\frac{3}{8}$ d) $\frac{7}{8}$
- iii) If A and B are independent events and P(A) = 0.5, P(B) = 0.7, then P(A-B) equals a) a)0.15 b) 0.35 c) 0.25 d) none of these

iv) If
$$P(A) = \frac{3}{8}$$
, $P(B) = \frac{5}{8}$ and $P(A+B) = \frac{3}{4}$, then $P(A/B)$ equals
a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{2}{5}$ 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 $P(B/\overline{A})$ equals				
	a) 0.4	b) 0.2	c) 0.8	d) none of these	
ix)	The probability of getting a 'heart' in drawing a card from a full pack of cards is				
	a) $\frac{1}{13}$	b) $\frac{1}{3}$	c) $\frac{1}{4}$	d) none of these	
x)	Total probability of any experiment is				
	a) 1	b)Ø	c)0	d) none of these	
xi)	If the sets A and B are equally likely then				
, mj	a) P(A)=0	b) P(B)=0	c)P(A)=P(B)	d) none of these	
xii)) The probability of getting two heads when an unbiased die is rolled t				
	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)	If A and B can hit the target with probabilities 1/2 and 1/3, then the probability				
	exactly one of	ctly one of them hits the target is			
)	a) $1/3$	b) 1/6	c) 1/12	d) none of these	
xvj	the target will be bit is				
	a) 1/3	b) 1/6	c) 1/12	d) none of these	

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