# **ST. LAWRENCE HIGH SCHOOL** A JESUIT CHRISTIAN MINORITY INSTITUTION



#### WORKSHEET-17

## **SUBJECT – STATISTICS**

## Term : PRE TEST

### **Topic - PROBABILITY DISTRIBUTION**

#### Full Marks: 15

Class: XII

Date:29s.06.2020

Q1. Select the correct alternative of the following questions.

(i)	<ul><li>Values of the random variable are always</li><li>a) Positive real numbers</li><li>c) both</li></ul>			<ul><li>b) negative real numbers</li><li>d) none of these</li></ul>	
(ii)	For a negative random <b>a</b> ) <b>Positive</b>	m variable X, Var(X) n b) Negative	nust be c) 0	d) none of these	
(iii)	Binomila distribution a) $p < \frac{1}{2}$	t is symmetric when b) $p > \frac{1}{2}$	c) $p = \frac{1}{2}$	d) none of these	
(iv)	If E(X) is negative th a) Positive	en X must be a ran b) negative	dom variable c) both	d) none of these	
(v)	If expectation of a rat a) same	ndom variable is zero, <b>b) different</b>	values of the racial values of	andom variable may be d) none of these	
(vi)	Uniform distribution <b>a) symmetric</b>	is b) positively skewed	c) negative sl	xewed d) none of these	
(vii)	A statistic is function a) population	of all the members of <b>b</b> )sample	a c) both	d) none of these	
(viii)	If X is a symmetric b a) 3	inomial variable with 1 b) 4	n=36, then sd o c) 9	of x is d) none of these	

(ix)	For a binomial variable (n+1)p is an integer then it is					
	a) unimodal	b) bimodal	c) trimodal	d) none of these		
(x)	(x) The third oprder central moment of an uniform distribution is					
	a) -1	b) 0	c) 1	d) none of these		
(xi)	xi) Uniform distribution is					
	a) leptokurtic	b) mesokurtic	c) platykurtic	d) none of these		
(xii)	Skewness of an uniform distribution is					
	a) -1	b) 0	c) 1	d) none of these		
(xiii)	$\beta_2$ of an uniform distrib					
	a) 1.4	b) <b>1.8</b>	c) 2	d) none of these		
(xiv)	In uniform distribution all the observations have probability					
	a) <b>same</b>	b) monotonic	c) anything	d) none of these		
(xv)	The mode of uniform distribution is represented by					
	a) <b>all the observations</b>		b) none of the observatyion			
	c) few observations		d) none of these			

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