

Full Marks: 15





Class: XII

Date:29.06.2020

## **WORKSHEET-17**

## **SUBJECT - STATISTICS**

Term: PRE TEST

## Topic - PROBABILITY DISTRIBUTION

Q1. Select the correct alternative of the following questions. (i) Values of the random variable are always a) Positive real numbers b) negative real numbers d) none of these c) both (ii) For a negative random variable X, Var(X) must be a) Positive d) none of these b) Negative c) 0 (iii) Binomila distribution is symmetric when c)  $p = \frac{1}{2}$ b) p> $\frac{1}{2}$ a) p <  $\frac{1}{2}$ d) none of these (iv) If E(X) is negative then X must be a ..... random variable a) Positive b) negative c) both d) none of these If expectation of a random variable is zero, values of the random variable may be (v) a) same b) different c) both d) none of these Uniform distribution is (vi) b) positively skewed c) negative skewed d) none of these a) symmetric A statistic is function of all the members of a (vii) a) population b)sample d) none of these c) both If X is a symmetric binomial variable with n=36, then sd of x is (viii) d) none of these a) 3 c) 9

(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)	The third oprder central moment of an uniform distribution is			
	a) -1	b) 0	c) 1	d) none of these
(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 distribution is less than			
	a) 1.4	b) 1.8	c) 2	d) none of these
(xiv)	In uniform distribution all the observations have probability			
	a) same	b) monotonic	c) anything	d) none of these
(xv)	The mode of uniform distribution is represented by			
	a) all the observations		b) none of the observatyion	
	c) few observations		d) none of these	

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Prepared by

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